

# SERVICE MANUAL

## INTEGRATED STEREO AMPLIFIER

# SANSUI AU-X701/X901



### CAUTION

1. Parts identified by the  $\triangle$  symbol on the schematic diagram and the parts list are critical for safety. Use only replacement parts that have critical characteristics recommended by the manufacturer.
2. Make leakage-current or resistance measurements to determine that exposed parts are acceptably insulated from the supply circuit before returning the appliance to the customer.

### •SPECIFICATIONS

#### AU-X701

##### Power output

Min. RMS, both channels driven, from 20 to 20,000 Hz, with no more than 0.005% total harmonic distortion.  
100 watts per channel into 8 ohms.

**Load impedance**..... 4 to 16 ohms

##### Total harmonic distortion

..... less than 0.005% at or below rated min. RMS power output

##### Intermodulation distortion

(60 Hz: 7 kHz = 4:1 SMPTE method)

..... less than 0.005% at rated power output

##### Frequency response (at 1 watt)

Overall (from CD)..... 1 to 300,000 Hz, +0 dB  
-3 dB

##### RIAA curve deviation (PHONO-MM, 20 Hz to 20 kHz)

..... +0.2 dB, -0.2 dB

##### Input sensitivity and impedance (at 1 kHz)

PHONO (MC)..... 300  $\mu$ V/100 ohms

#### European models only

PHONO (MC TRANS)..... 160  $\mu$ V/16 ohms

PHONO (MM)..... 2.5 mV/47 kohms

(Max. input capability: 210 mV at 1 kHz, less than 0.01% total harmonic distortion)

CD, TUNER, LINE..... 150 mV/47 kohms

TAPE/DAT PLAY-1, 2, 3

..... 150 mV/47 kohms

PROCESSOR RETURN

..... 150 mV/47 kohms

##### Output level (1,000 Hz)

TAPE/DAT REC-1, 2, 3

..... 150 mV into 47 kohms

PROCESSOR SEND..... 150 mV into 47 kohms

##### Signal to noise ratio (short-circuit, A-network)

PHONO (MM)..... 88 dB

CD, TUNER, LINE..... 110 dB

TAPE/DAT PLAY-1, 2, 3

..... 110 dB

##### Controls and Filter

BASS.....  $\pm 5$  dB at 50 Hz

TREBLE.....  $\pm 5$  dB at 15 kHz

SUBSONIC..... -3 dB at 16 Hz (6 dB/oct)

MUTING..... -20 dB

LOUDNESS..... +8 dB at 50 Hz

+6 dB at 10 kHz

(VOLUME: -30 dB position)

**Power requirements**..... AC 120V/220V/240V,  
50/60 Hz

For U.S.A. & Canada... AC 120V, 60 Hz

**Power consumption**..... 380 watts 460 VA Rated  
720 watts Maximum

**Dimensions**..... 448 mm (17-11/16") W  
160 mm (6-9/16") H  
441 mm (17-3/8") D

**Weight**..... 17.1 kg (37.7 lbs) net  
19 kg (41.9 lbs) packed

to be continued ►

**Sansui**

SANSUI ELECTRIC CO., LTD.

## NOTE

## AU-X901

## Power output

Min. RMS, both channels driven, from 20 to 20,000 Hz, with no more than 0.005% total harmonic distortion.

130 watts per channel into 8 ohms.

Load impedance..... 4 to 16 ohms

## Total harmonic distortion

..... less than 0.005% at or below rated min. RMS power output

## Intermodulation distortion

(60 Hz: 7 kHz = 4:1 SMPTE method)

..... less than 0.005% at rated power output

## Frequency response (at 1 watt)

Overall (from CD)..... 1 to 300,000 Hz, +0 dB  
-3.0 dB

## RIAA curve deviation (PHONO-MM, 20 Hz to 20 kHz)

..... +0.2 dB, -0.2 dB

## Input sensitivity and impedance (at 1 kHz)

PHONO (MC TRANS)

..... 160  $\mu$ V/16 ohms

PHONO (MM)..... 2.5 mV/47 kohms

(Max. input capability: 210 mV at 1 kHz,  
less than 0.01% total harmonic distortion)

CD, TUNER, LINE..... 150 mV/47 kohms

TAPE/DAT PLAY-1, 2, 3

..... 150 mV/47 kohms

PROCESSOR RETURN

..... 150 mV/47 kohms

POWER AMP DIRECT (NORMAL)

..... 1V/5 kohms

POWER AMP DIRECT (BALANCED)

..... 2V/5 kohms

## Output level (1,000 Hz)

TAPE/DAT REC-1, 2, 3

..... 150 mV into 47 kohms

PROCESSOR SEND

..... 150 mV into 47 kohms

## Signal to noise ratio (short-circuit, A-network)

PHONO (MC TRANS)

..... 77 dB

PHONO (MM)..... 88 dB

CD, TUNER, LINE..... 110 dB

TAPE/DAT PLAY-1, 2, 3

..... 110 dB

## Controls and Filter

BASS.....  $\pm 5$  dB at 50 Hz

Turnover frequency

..... 150 Hz, 75 Hz

TREBLE.....  $\pm 5$  dB at 15 kHz

SUBSONIC..... -3 dB at 16 Hz (6 dB/oct)

MUTING..... -20 dB

LOUDNESS..... +8 dB at 50 Hz

+6 dB at 10 kHz

(VOLUME: -30 dB position)

Power requirements..... AC 120V/220V/240V,  
50/60 Hz

For U.S.A. & Canada... AC 120V, 60 Hz

Power consumption..... 450 watts 560 VA Rated  
820 watts Maximum

Dimensions..... 448 mm (17-11/16") W  
160 mm (6-9/16") H  
441 mm (17-3/8") D

Weight..... 18.1 kg (39.9 lbs) net  
20 kg (44.1 lbs) packed

\* Design and specifications subject to changes without notice for improvements.

\* Due to local laws and regulations, this unit sold in some areas are not equipped with variable voltage selectors.

- The symbols, UL, CSA, SA, BS, UK, EU, AS, SEV, SS, XX <EXPORT> and XX-V <EXPORT(V)> on the parts list and the schematic diagram mean followings respectively.

UL..... Manufactured for U.S.A market.  
(Underwriters Laboratories approved model.)

CSA..... Manufactured for Canadian market.

SA..... Manufactured for South African market.

BS, UK..... Manufactured for United Kingdom market.

EU..... Manufactured for European market.

AS..... Manufactured for Australian market.

SEV..... Manufactured for Swiss market.

SS..... Manufactured for Saudi Arabian market.

XX..... Standard Version with Inner Voltage  
<EXPORT> Selector.

XX-V..... Standard Version with Outer Voltage  
<EXPORT(V)> Selector.

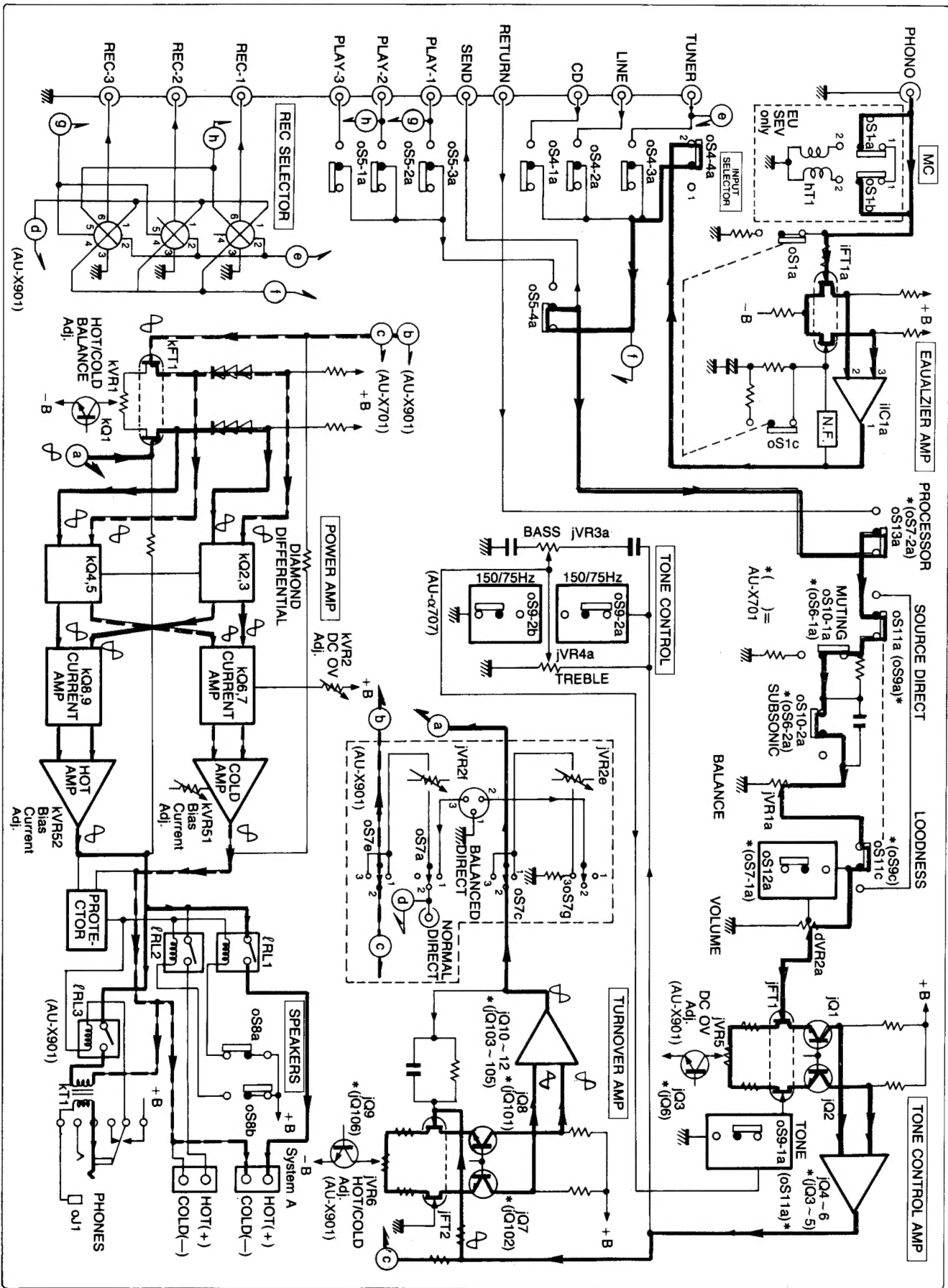
NON MARK..... Common Parts.

- Some printed circuit boards are not supplied assembled. To separate these in this service manual, the stock numbers are not indicated for these boards. However, stock numbers for individual parts are indicated.
- Since some capacitors and resistors are omitted from parts lists in this service manual, refer to the Common Parts List for capacitors and resistors, which was issued on February 1983.
- Abbreviations in this service manual are as follows.

## •Abbreviations List

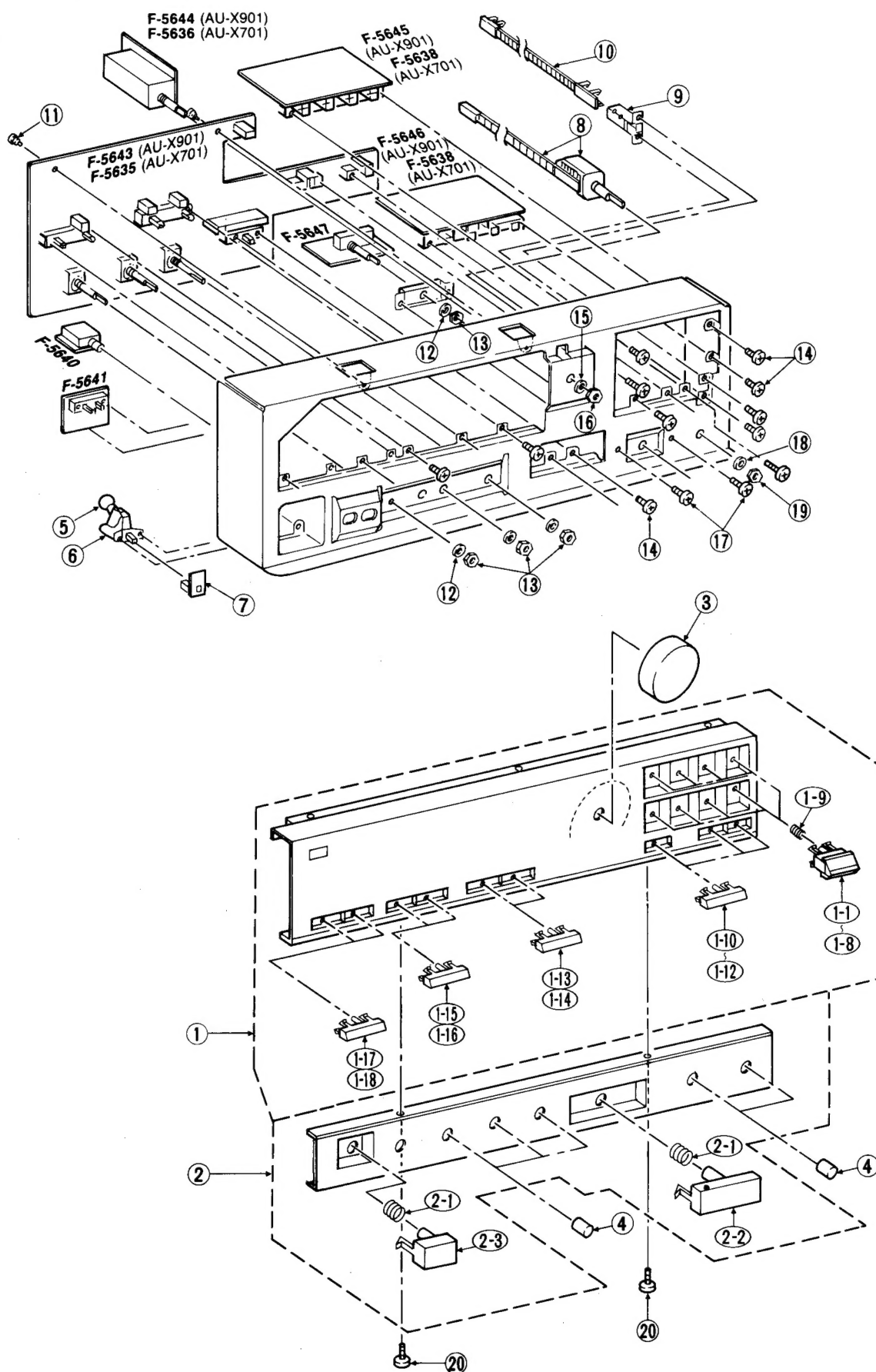
C.R.	: Carbon Resistor
S.R.	: Solid Resistor
Ce.R.	: Cement Resistor
M.R.	: Metal Film Resistor
F.R.	: Fusing Resistor
N.I.R.	: Non-Inflammable Resistor
A.R.	: Array Resistor
C.C.	: Ceramic Capacitor
C.T.	: Ceramic Capacitor, Temperature Compensation
E.C.	: Electrolytic Capacitor
E.L.	: Low Leak Electrolytic Capacitor
E.B.	: Bi-Polar Electrolytic Capacitor
E.B.L.	: Low Leak Bi-Polar Electrolytic Capacitor
Ta.C.	: Tantalum Capacitor
F.C.	: Film Capacitor
M.P.	: Metalized Paper Capacitor
P.C.	: Polystyrene Capacitor
G.C.	: Gimmic Capacitor
A.C.	: Array Capacitor
V.R.	: Variable Resistor
S.V.R.	: Semi Variable Resistor
SW.	: Switch
Chip R.	: Chip Resistor
Chip C.	: Chip Capacitor

## 1. BLOCK DIAGRAM



## 2. EXPLODED VIEW OF SET & PARTS LIST

### 2-1. Front





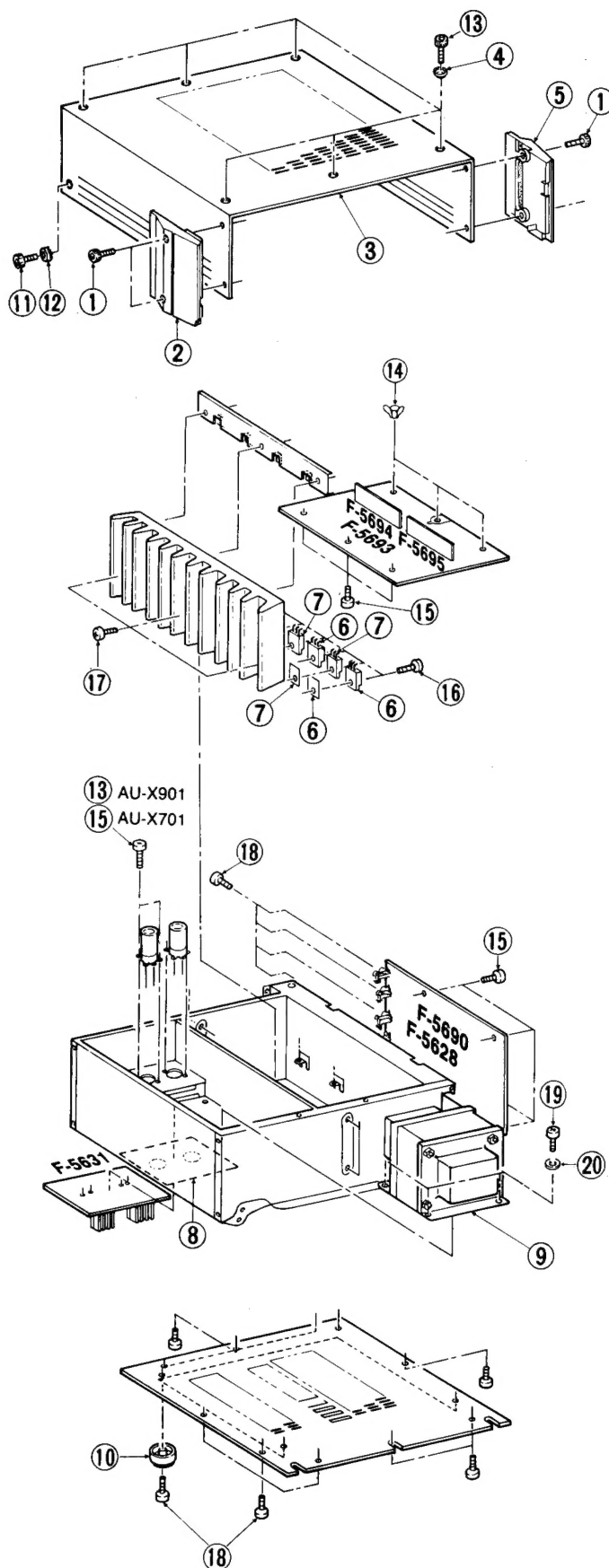
## Parts List &lt;Front&gt;

Parts No.	Stock No.	Description
1	27401000	Front Panel Assy-A (AU-X701)
	27401200	Front Panel Assy-A (AU-X901)
1-1	27424800	Knob, CD
1-2	27424700	Knob, LINE
1-3	27424600	Knob, TUNER
1-4	27424500	Knob, PHONO
1-5	27425200	Knob, TAPE-3
1-6	27425100	Knob, TAPE-2
1-7	27425000	Knob, TAPE-1
1-8	27424900	Knob, TAPE/DAT
1-9	27296900	Spring, Input Selector Knob
1-10	27416900	Knob, PROCESSOR
1-11	27417000	Knob, MM/MC
1-12	27416800	Knob, LOUDNESS
1-13	27416600	Knob, SUBSONIC
1-14	27416700	Knob, MUTING
1-15	27416400	Knob, TURNOVER (AU-X901)
1-16	27416500	Knob, TONE
1-17	27416200	Knob, SPEAKERS-A
1-18	27416300	Knob, SPEAKERS-B
2	27425700	Front Panel Assy-B (AU-X701)
	27425810	Front Panel Assy-B (AU-X901)
2-1	27297000	Spring, SOURCE DIRECT-POWER
2-2	27423700	Knob, SOURCE DIRECT
2-3	27423600	Knob, POWER
3	27298900	Knob, VOLUME (AU-X701)
	27423500	Knob, VOLUME (AU-X901)
4	27101700	Knob, POWER AMP DIRECT (AU-X901)
5	46943200	BASS-TREBLE-BALANCE-REC-SELECTOR
5	46425800	0.01 $\mu$ F 400V C.C. (AU-X701)
5	46943200	0.01 $\mu$ F 400V C.C. (AU-X901)
6	48113300	Push SW., POWER (AU-X701)
6	46612900	Push SW., POWER (AU-X901)
7	47348200	Joiner, POWER SW.,
8	48640110	R/S Converter with flexible wire (AU-X701)
	48719310	R/S Converter with flexible wire (AU-X901)
9	48670000	Push Operator, MC/MM
10	48728500	Flexible Wire
11	00471500	Resinous Rivet
12	07106100	7.0M Washer
13	07105600	7.0M Nut
14	13122300	M3X6 Screw
15	07106200	8.0M Washer
16	07105700	8.0M Nut
17	46267800	M3X8 Screw
18	07106300	9.0M Washer
19	07105800	9.0M Nut
20	46267900	M3X8 Screw

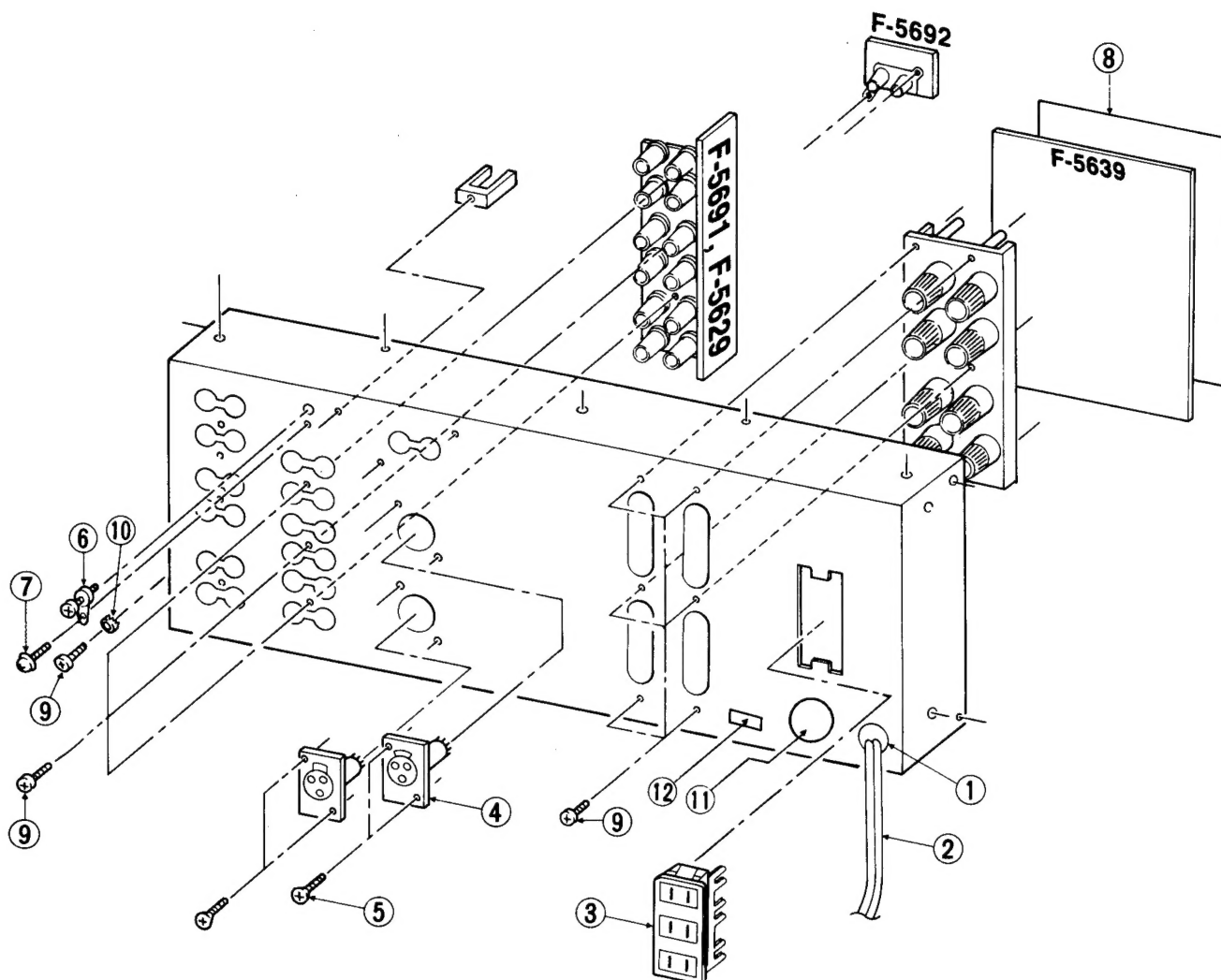
## Parts List &lt;Center&gt;

Parts No.	Stock No.	Description
1	48719700	M5X10 Hexagn Socket Head Screw
2	27301100	Left Side Panel
3	27301400	Bonnet
4	27319200	BO Spacer
5	27301200	Right Side Panel
6	48729201	2SA1303 <AU-X701>
6	48729401	2SA1386 <AU-X901>
7	48729301	2SC3284 <AU-X701>
7	48729501	2SC3519 <AU-X901>
8	27355200	Absolute Sheet-B
9	15028909	Power Transformer with VOLTAGE SELECTOR SOCKET (XX-V) <AU-X701>
9	15028902	Power Transformer (UL) <AU-X701>
9	15028905	Power Transformer (EU SEV) <AU-X701>
9	15028903	Power Transformer (CSA) <AU-X701>
9	15029009	Power Transformer with VOLTAGE SELECTOR Socket (XX-V) <AU-X901>
9	15029002	Power Transformer (UL CSA) <AU-X901>
9	15029005	Power Transformer (EU SEV) <AU-X901>
10	27266000	Leg <AU-X701>
	47338400	Leg <AU-X901>
11	46669100	M4X8 Screw
12	46413000	4M Washer
13	00458500	M4X8 Screw
14	00471500	Resinous River
15	46267800	M3X8 Screw
16	48795700	M3X14 Screw
17	46268100	M3X10 Screw
18	46267900	M3X8 Screw
19	00462100	M4X12 Screw
20	27323200	Washer, Transformer

## 2-2. Center



## 2-3. Rear



## Parts List &lt; Rear &gt;

Parts No.	Stock No.	Description
1	39104900	Strain Relief (UL,CSA,EU,SEV)
	39106000	Strain Relief (XX-V)
△ 2	48187800	Power Supply Cord (UL,CSA)
△	48187500	Power Supply Cord-Polarized (XX-V)
△	46128900	Power Supply Cord (EU)
△	38004700	Power Supply Cord (XX-V)
△	48837700	Power Supply Cord (SS)
△	48306700	Power Supply Cord (SEV)
△ 3	48184700	AC OUTLET (UL,CSA)
△	46730400	AC OUTLET (XX-V)
△	48184700	AC OUTLET-Polarized (XX-V)
△	46161000	AC OUTLET (EU,SEV)
4	48586300	Neutrik Connector (AU-X901)
5	00462800	M3X10 Countersunk Head Screw
6	48587600	Ground Terminal
7	46268000	M3X8 Flanged Head Screw
8	27355100	Absolute Sheet-A
9	46267900	M3X8 Screw
10	46412900	Washer
△ 11	48175200	Voltage Selector Switch (XX-V)
△	07204700	Slide SW., VOLTAGE SELECTOR (EU,SEV)
12	07204700	Slide SW., SPEAKER IMPEDANCE SELECTOR (XX-V,EU,SEV)
	46736600	Slide SW., SPEAKER IMPEDANCE SELECTOR (UL,CSA)

### 3. PARTS LIST OF BOARD

#### 3-1. F-5690 EQ Amp & Input Terminal Board (Stock No. 01037501 = AU-X901) (Stock No. 01039405 = AU-X701-EU-SEV)

Parts No.	Stock No.	Description
hPT1	48828200	MC Head Tranformer
•Transistor iQ1	46581701	2SC1845
•FET iFT1	46723601 or 46723602	2SK389-BL 2SK389-V
•IC iIC1	46579100	M5219L
•Zener Diode iDZ1	46111800 or 46825200	05Z6.2-Y RD6.2E-B1
iDZ2	46115400 or 46115500	05Z20-Y 05Z20-Z
iDZ3	46115400 or 46115500	05Z20-Y 05Z20-Z
iR15	48031900	56k $\Omega$ 1/4W C.R.
iR16	48028100	1.5k $\Omega$ 1/4W C.R.
iR17	48029300	4.7k $\Omega$ 1/4W C.R.
$\Delta$ iR21	46229700	390 $\Omega$ 1/2W N.I.R.
$\Delta$ iR22	46229700	390 $\Omega$ 1/2W N.I.R.
iC6	48682900	100 $\mu$ F 16V E.C.
iC7	48682200	47 $\mu$ F 10V E.C.
iC8	46697000	0.056 $\mu$ F 50V F.C.
iC9	46695700	0.016 $\mu$ F 50V F.C.
iC10	48685900	10 $\mu$ F 50V E.C.
iC11	48685900	10 $\mu$ F 50V E.C.
iC13	46694200	3900pF 50V F.C.
iC14	48692200	220 $\mu$ F 25V E.C.
iC15	48692200	220 $\mu$ F 25V E.C.
iC16	48670600	470 $\mu$ F 6.3V E.C.
oS1	48728600	Slide SW., M.M/M.C
oS2	48164000	Slide SW., REC SELECTOR
oZ3	48792100	Pin Jack, PHONO
oZ4	48792100	Pin Jack, CD
oZ5	48791900	Pin Jack, TUNER/LINE
oZ6	48791900	Pin Jack, SEND/RETURN

#### 3-2. F-5628 EQ Amp & Input Terminal Board (Stock No. 01038301 = AU-X701-XX-UL-CSA)

Parts No.	Stock No.	Description
•Transistor iQ1	46581701	2SC1845
•FET iFT1	46723601 or 46723602	2SK389-BL 2SK389-V
•IC iIC1	46579100	M5219L
•Zener Diode iDZ1	46111800 or 46825200	05Z6.2-Y RD6.2E-B1
iDZ2	46115400 or 46115500	05Z20-Y 05Z20-Z
iDZ3	46115400 or 46115500	05Z20-Y 05Z20-Z
iR15	48031900	56k $\Omega$ 1/4W C.R.
iR16	48028100	1.5k $\Omega$ 1/4W C.R.
iR17	48029300	4.7k $\Omega$ 1/4W C.R.
iR19	48027700	1k $\Omega$ 1/4W N.I.R.
$\Delta$ iR21	46229700	390 $\Omega$ 1/2W N.I.R.
$\Delta$ iR22	46229700	390 $\Omega$ 1/2W N.I.R.
iC6	48682900	100 $\mu$ F 16V E.C.
iC7	48682200	47 $\mu$ F 10V E.C.
iC8	46696800	0.047 $\mu$ F 50V F.C.
iC9	46695700	0.016 $\mu$ F 50V F.C.
iC10	48685900	10 $\mu$ F 50V E.C.
iC11	48685900	10 $\mu$ F 50V E.C.
iC13	46282500	3900pF 50V F.C.
iC14	48692200	220 $\mu$ F 25V E.C.
iC15	48692200	220 $\mu$ F 25V E.C.
iC16	48688500	470 $\mu$ F 6.3V E.C.
oS1	48728600	Slide SW., M.M/M.C
oS2	48164000	Slide SW., REC SELECTOR
oZ3	48791800	Pin Jack, PHONO
oZ4	48791800	Pin Jack, CD
oZ5	48791900	Pin Jack, TUNER/LINE
oZ6	48791900	Pin Jack, SEND/RETURN

#### 3-3. F-5691 Tape Terminal Board <AU-X701-EU-SEV/AU-X901-XX-UL-EU-SEV-CSA>

Parts No.	Stock No.	Description
JC50	46696800	0.047 $\mu$ F 50V F.C. <AU-X901>
JC51	46696800	0.047 $\mu$ F 50V F.C. <AU-X901>
JC52	46696800	0.047 $\mu$ F 50V F.C. <AU-X901>
oZ7	48528200	4P Terminal, TAPE-3
oZ8	48528200	4P Terminal, TAPE-2
oZ9	48528200	4P Terminal, TAPE-1

#### 3-4. F-5692 Power Amp Direct Terminal Board <AU-X901>

Parts No.	Stock No.	Description
oZ10	22006100	2P Terminal,

**3-5. F-5639 Protector Board**

(Stock No. 01039001 = AU-X701/Stock No. 01036401 = AU-X901)

Parts No.	Stock No.	Description
△kR100	46623100	10Ω 2W N.I.R. <AU-X701>
△	00185500	10Ω 2W N.I.R. <AU-X901>
△kR101	46623100	10Ω 2W N.I.R. <AU-X701>
△	00185500	10Ω 2W N.I.R. <AU-X901>
△kR102	46248700	33Ω 1W N.I.R. <AU-X701>
△	46249300	100Ω 1W N.I.R. <AU-X901>
△kR103	46248700	33Ω 1W N.I.R. <AU-X701>
△	46249300	100Ω 1W N.I.R. <AU-X901>
kC100	46283700	0.047μF 50V F.C. <AU-X701>
	48834100	0.047μF 630V F.C. <AU-X901>
kC101	46283700	0.047μF 50V F.C. <AU-X701>
	48834100	0.047μF 630V F.C. <AU-X901>
kT1	46841810	MC Head Transformer
•Transistor		
IQ1	46188701	2SC1815
IQ2	46188701	2SC1815
•IC		
△IIC1	46207600	TA7317P
•Diode		
△ID1	03117600	1S2473T77
△	or 46086000	1S1588TP-3
ID2	03117600	1S2473T77
	or 46086000	1S1588TP-3
ID3	03117600	1S2473T77
	or 46086000	1S1588TP-3
ID4	03117600	1S2473T77
	or 46086000	1S1588TP-3
△ID5	03117700	10E-2
△ID6	03117600	1S2473T77
△	or 46086000	1S1588TP-3
ID7	48123600	11E2
ID8	48123600	11E2
ID9	03117600	1S2473T77 <AU-X901>
	or 46086000	1S1588TP-3 <AU-X901>
△IR18	46230700	2.7kΩ 1/2W N.I.R.
IC1	48101900	100μF 10V E.B.
IC2	48101900	100μF 10V E.B.
IC4	48103400	1μF 50V E.B.
IRL1	46737700	Relay, Protector <AU-X701>
	46446400	Relay, Protector <AU-X901>
IRL2	46737700	Relay, Protector <AU-X701>
	46446400	Relay, Protector <AU-X901>
IRL3	48057001	Relay, Phones <AU-X901>
•Transistor		
△mQ1	07206401	2SD600K <AU-X701>
△	03086101	2SD357 <AU-X901>
△mQ2	03067401	2SC1845 <AU-X701>
	46581701	2SC1845 <AU-X901>
•Diode		
△mD1	03117700	10E-2
△mD2	03117700	10E-2
•Zener Diode		
mDZ1	46116200	05Z27-X <AU-X701>
	or 46830300	RD27E-B3 <AU-X701>
	or 46830400	RD27E-B4 <AU-X701>
	46105800	05Z24-Y <AU-X901>
△mR1	46624300	100Ω 2W N.I.R. <AU-X701>
△	46228300	27Ω 1/2 W.N.I.R. <AU-X901>
△nR1	46250700	1.5kΩ 1W N.I.R. <AU-X901>
oZ1	48592700	8P Terminal, Speaker

**3-6. F-5645 Input Selector Board <AU-X901>**

Parts No.	Stock No.	Description
•Zener Diode		
nDZ3	46109100	05Z2.7-Y
•LED		
nLD11	48719200	AY3427S, CD
nLD12	48719200	AY3427S, LINE
nLD13	48719200	AY3427S, TUNER
nLD14	48719200	AY3427S, PHONO
oS4	48640300	Push SW., CD•LINE•TUNER•PHONO

**3-7. F-5637 Input Selector Board <AU-X701>**

Parts No.	Stock No.	Description
•Zener Diode		
nDZ3	46109100	05Z2.7-Y
	or 46109200	05Z2.7-Z
•LED		
nLD11	48719200	AY3427S, CD
nLD12	48719200	AY3427S, LINE
nLD13	48719200	AY3427S, TUNER
nLD14	48719200	AY3427S, PHONO
oS4	48640300	Push SW., CD•LINE•TUNER•PHONO



**3-8. F-5631 Power Supply Board**

(Stock No. 01038501 = AU-X701/Stock No. 01036301 = AU-X901)

Parts No.	Stock No.	Description
aZ25	07257800	Screw, M3X14
•Transistor		
△mQ3	48508801	2SC3851
mQ4	03067401	2SC1845
△mQ5	48509101	2SA1488
mQ6	03010901	2SA992
•FET		
mFT1	03703401	2SK163-K2
mFT2	03703401	2SK163-K2
•Diode		
△mD3	03117000	RB-152LFF <AU-X701>
△	07193300	UB-152LFF <AU-X901>
△mD4	48667700	FMU-22R <AU-X701>
△	48667500	FMG-22R <AU-X901>
△mD5	48667600	FMU-22S <AU-X701>
△	48667400	FMG-22S <AU-X901>
△mD6	48667700	FMU-22R <AU-X701>
△	48667500	FMG-22R <AU-X901>
△mD7	48667600	FMU-22S <AU-X701>
△	48667400	FMG-22S <AU-X901>
•Zener Diode		
mD22	46106600	05Z33-X
or	46808700	RD33E-B3 <AU-X701>
mD23	46106600	05Z33-X
or	46808700	RD33E-B3 <AU-X701>
△mR5	46228200	22Ω 1/2W N.I.R.
△mR6	46228200	22Ω 1/2W N.I.R.
△mR8	46251500	6.8kΩ 1W N.I.R.
△mR9	46251500	6.8kΩ 1W N.I.R.
△mR10	46248100	10Ω 1W N.I.R. <AU-X901>
△mR17	46248100	10Ω 1W N.I.R. <AU-X701>
mC2	08680400	0.01μF 500V C.C. <AU-X701>
mC3	46425800	0.01μF 400V C.C. <AU-X701>
or	46943200	0.01μF 400V E.C. <AU-X701>
△	48527800	0.01μF 630V F.C. <AU-X901>
mC4	48695700	1000μF 50V E.C.
mC5	48695700	1000μF 50V E.C.
mC6	48693300	100μF 35V E.C.
mC7	48693300	100μF 35V E.C.
mC8	48693600	470μF 35V E.C. <AU-X701>
	48693700	1000μF 35V E.C. <AU-X901>
mC9	48693600	470μF 35V E.C. <AU-X701>
	48693700	1000μF 35V E.C. <AU-X901>
mC11	48828800	10000μF 71V E.C. <AU-X701>
	48719500	10000μF 80V E.C. <AU-X901>
mC12	48828800	10000μF 71V E.C. <AU-X701>
	48830800	12000μF 80V E.C. <AU-X901>
mC21	46222800	0.22μF 100V F.C.
mC22	46222800	0.22μF 100V F.C.
△mC31	08680400	0.01μF 500V C.C.
△mC32	08680400	0.01μF 500V C.C.
△mC33	08680400	0.01μF 500V C.C.
△mC34	08680400	0.01μF 500V C.C.
△pF1	48721700	Fuse 4.0A (XX) <AU-X701>
△	48722000	Fuse 7.0A (UL,CSA) <AU-X701>
△	07185300	Fuse 4.0A (EU,FT,SEV) <AU-X701>
△	48721800	Fuse 5.0A (XX) <AU-X901>
△	48722200	Fuse 10A (UL,CSA) <AU-X901>
△	07185300	Fuse 4.0A (EU) <AU-X901>
△	07185400	Fuse 5.0A (SEV) <AU-X901>
△pF2	48721700	Fuse 4.0A (XX) <AU-X701>
△	07184700	Fuse 1.0A (SEV) <AU-X701>
△	48721800	Fuse 5.0A (XX) <AU-X901>
△	07184700	Fuse 1.0A (SEV) <AU-X901>

**3-9. F-5638 Tape Selector Board <AU-X701>**

Parts No.	Stock No.	Description
•Zener Diode		
nDZ4	46109100	05Z2.7-Y
or	46109200	05Z2.7-Z
•LED		
nLD15	48719200	AY3427S, TAPE-1
nLD16	48719200	AY3427S, TAPE-2
nLD17	48719200	AY3427S, TAPE-3
oS5	48640200	Push SW., TAPE SELECTOR

**3-10. F-5636 Volume Board <AU-X701>**

Parts No.	Stock No.	Description
jVR2	48728700	100KBX2 V.R.

**3-11. F-5629 Tape Terminal Board**

&lt;AU-X701-XX-UL-CSA&gt;

Parts No.	Stock No.	Description
oZ7	48528200	4P Terminal, TAPE-3
oZ8	48528200	4P Terminal, TAPE-2
oZ9	48528200	4P Terminal, TAPE-1

## 3-12. F-5646 Tape Selector Board &lt;AU-X901&gt;

Parts No.	Stock No.	Description
•Zener Diode nDZ4	46109100	05Z2.7-Y
•LED nLD15	48719200	AY3427S, TAPE-1
nLD16	48719200	AY3427S, TAPE-2
nLD17	48719200	AY3427S, TAPE-3
oS5	48640200	Push SW., TAPE-1, 2, 3, TAPE/DAT

## 3-13. F-5647 Power Amp Direct SW. Board

&lt;AU-X901&gt;

Parts No.	Stock No.	Description
jR69	48027100	560Ω 1/4W C.R.
•Zener Diode nDZ11	46109100	05Z2.7-Y
oS7	48669800	Slide Rotary SW., Power Amp. Direct Operation

## 3-14. F-5693 Power Amp Board (Stock No. 01039601 = AU-X701/Stock No. 01037901 = AU-X901)

Parts No.	Stock No.	Description
•Transistor kQ1	46581701	2SC1845
kQ2	46581701	2SC1845
or 46947401	2SC2459	
kQ3	46581701	2SC1845
or 46947401	2SC2459	
kQ4	46581601	2SA992
or 46947301	2SA1049	
kQ5	46581601	2SA992
or 46947301	2SA1049	
kQ6	46728201	2SA1145
kQ7	46728301	2SC2705
kQ8	46728201	2SA1145
kQ9	46728301	2SC2705
△kQ51	46581701	2SC1845
△kQ52	46581701	2SC1845
kQ53	46728301	2SC2705
kQ54	46728301	2SC2705
kQ55	46728201	2SA1145
kQ56	46728201	2SA1145
kQ57	46728901	2SC3298
kQ58	46728901	2SC3298
kQ59	46728801	2SA1306
kQ60	46728801	2SA1306
△kQ61	48729301	2SC3284 (AU-X701)
△	48729501	2SC3519 (AU-X901)
△kQ62	48729301	2SC3284 (AU-X701)
△	48729501	2SC3519 (AU-X901)
△kQ63	48729201	2SA1303 (AU-X701)
△	48729401	2SA1386 (AU-X901)
△kQ64	48729201	2SA1303 (AU-X701)
△	48729401	2SA1386 (AU-X901)
•FET kFT1	46723601	2SK389-BL
or 46723602	2SK389-V	
or 48785701	2SK389-BK (AU-X701)	
or 48785702	2SK389-VK (AU-X701)	
kD1	03401700	Varistor MV103
kD2	03401700	Varistor MV103
•Diode kD51	46727900	1S2091
kD52	46727900	1S2091
kD53	46727900	1S2091
kD54	46727900	1S2091
•Zener Diode kDZ1	46111800	05Z6.2-Y
or 46825300	RD6.2E-B2 (AU-X701)	
kDZ51	03171500	RD22F
kR1	48029100	3.9kΩ 1/4W C.R. (AU-X701)
	48029200	4.3kΩ 1/4W C.R. (AU-X901)
kR2	48028900	3.3kΩ 1/4W C.R.
kR3	48028900	3.3kΩ 1/4W C.R.
kR29	48032700	120kΩ 1/4W C.R. (AU-X701)
	48033000	160kΩ 1/4W C.R. (AU-X901)

Parts No.	Stock No.	Description
kR30	48032700	120kΩ 1/4W C.R. (AU-X701)
	48033000	160kΩ 1/4W C.R. (AU-X901)
kR31	48029100	3.9kΩ 1/4W C.R. (AU-X701)
	48029200	4.3kΩ 1/4W C.R. (AU-X901)
△kR51	46228400	33Ω 1/2W N.I.R.
△kR52	46228400	33Ω 1/2W N.I.R.
△kR53	46625100	470Ω 2W N.I.R.
△kR60	46229000	100Ω 1/2W N.I.R.
△kR61	46229000	100Ω 1/2W N.I.R.
△kR62	46229000	100Ω 1/2W N.I.R.
△kR63	46229000	100Ω 1/2W N.I.R.
△kR64	46229900	560Ω 1/2W N.I.R.
△kR65	46229900	560Ω 1/2W N.I.R.
△kR66	46229100	120Ω 1/2W N.I.R.
△kR67	46229100	120Ω 1/2W N.I.R.
△kR68	48730500	0.22Ω+0.22Ω 5W Ce.R. (AU-X701)
△	48197000	0.22Ω+0.22Ω 7W Ce.R. (AU-X901)
△kR69	48730500	0.22Ω+0.22Ω 5W Ce.R. (AU-X701)
△	48197000	0.22Ω+0.22Ω 7W Ce.R. (AU-X901)
△kR72	46623100	10Ω 2W N.I.R. (AU-X701)
△	00185500	10Ω 2W N.I.R. (AU-X901)
△kR73	46623100	10Ω 2W N.I.R. (AU-X701)
△	00185500	10Ω 2W N.I.R. (AU-X901)
△kR76	46227400	4.7Ω 1/2W N.I.R.
△kR77	46227400	4.7Ω 1/2W N.I.R.
△kR78	46227400	4.7Ω 1/2W N.I.R.
△kR79	46227400	4.7Ω 1/2W N.I.R.
kC1	46282000	1500pF 50V F.C. (AU-X701)
kC51	46628500	470μF 50V E.C.
kC52	46628500	470μF 50V E.C.
kC53	48683500	100μF 25V E.C. (AU-X701)
kC54	48692200	220μF 25V E.C.
kC55	48692200	220μF 25V E.C.
kC60	46283700	0.047μF 50V F.C. (AU-X701)
	48834100	0.047μF 630V F.C. (AU-X901)
kC61	46283700	0.047μF 50V F.C. (AU-X701)
	48834100	0.047μF 630V F.C. (AU-X901)
kC62	48692200	220μF 25V E.C.
kC63	48692200	220μF 25V E.C.
kL1	48818500	Coil 0.82μH (AU-X701)
	46851900	Coil 0.8μH (AU-X901)
or 46851901	Coil 0.82μH (AU-X901)	
kL2	48818500	Coil 0.82μH (AU-X701)
	46851900	Coil 0.8μH (AU-X901)
or 46851901	Coil 0.82μH (AU-X901)	
kVR1	48716300	100Ω S.V.R., HOT/COLD BALANCE
kVR2	48118600	500Ω S.V.R., DC 0V
kVR51	46633700	1kΩ (B) S.V.R., Bias
kVR52	46633700	1kΩ (B) S.V.R., Bias

## 3-15. F-5640 Head Phones Board

Parts No.	Stock No.	Description
oJ1	46078200	Jack,, PHONES

## 3-16. F-5641 SP. SW. Board

Parts No.	Stock No.	Description
•LED nLD1	48719200	AY3427S, PROTECTOR
oS8	48640600	Push SW., SPEAKERS-A, B

## 3-17. F-5643 Tone Control Amp Board &lt;AU-X901&gt; (Stock No. 01036901)

Parts No.	Stock No.	Description
•Transistor		
jQ1	46581701	2SC1845
jQ2	46581701	2SC1845
jQ3	46581701	2SC1845
jQ4	46581601	2SA992
jQ5	46581601	2SA992
jQ6	46581701	2SC1845
jQ7	46581701	2SC1845
jQ8	46581701	2SC1845
jQ9	46581701	2SC1845
jQ10	46581601	2SA992
jQ11	46581601	2SA992
jQ12	46581701	2SC1845
•FET		
jFT1	46723600	2SK389-GR
	or 46723601	2SK389-BL
	or 46723602	2SK389-V
jFT2	46723600	2SK389-GR
	or 46723601	2SK389-BL
	or 46723602	2SK389-V
•Diode		
jD1	03117600	1S2473T77
	or 46086000	1S1588TP-3
jD2	03401500	Varistor MV12
jD3	03117600	1S2473T77
	or 46086000	1S1588TP-3
jD4	03401500	Varistor MV12
△jR18	46229100	120Ω 1/2W N.I.R.
△jR22	46229400	220Ω 1/2W N.I.R.
△jR23	46229400	220Ω 1/2W N.I.R.
jR24	48029500	5.6kΩ 1/4W C.R.
jR25	48028600	2.4kΩ 1/4W C.R.
jR31	48029700	6.8kΩ 1/4W C.R.
△jR40	46229100	120Ω 1/2W N.I.R.
△jR44	46229400	220Ω 1/2W N.I.R.
△jR45	46229400	220Ω 1/2W N.I.R.
jR46	48029700	6.8kΩ 1/4W C.R.
jR48	48025300	100Ω 1/4W C.R.
jC1	48479800	0.33μF 63V F.C.

Parts No.	Stock No.	Description
jC3	46697200	0.068μF 50V F.C.
jC16	48677500	220μF 25V E.C.
jC17	48677500	220μF 25V E.C.
jC30	46697400	0.082μF 50V F.C.
jC31	46698000	0.15μF 50V F.C.
jC32	46697400	0.082μF 50V F.C.
jC33	46698000	0.15μF 50V F.C.
jC34	46693600	2200pF 50V F.C.
jC35	46694800	6800pF 50V F.C.
jC36	48683100	10μF 25V E.C.
jC37	48683100	10μF 25V E.C.
jC41	48693400	220μF 35V E.C.
jC42	48693400	220μF 35V E.C.
jC53	46691100	0.047μF 50V F.C.
jC71	48478500	0.33μF 63V F.C.
jVR1	48669100	250KX2 V.R., BALANCE
jVR3	48669000	100KX2 V.R., TREBLE
jVR4	48669000	100KX2 V.R., BASS
jVR5	46738100	100Ω S.V.R., DC 0V
jVR6	46738100	100Ω S.V.R., DC 0V
•Zener Diode		
nDZ1	46112400	05Z7.5-Y
nDZ2	46109100	05Z2.7-Y
•LED		
nLD2	48351800	GL-3HY8, TONE
nLD3	48351800	GL-3HY8, SUBSONIC
nLD4	48351800	GL-3HY8, MUTING
nLD5	48719200	AY3427S, SOURCE DIRECT
nLD6	48719200	AY3427S, SOURCE DIRECT
nLD7	48719200	AY3427S, SOURCE DIRECT
nLD8	48351800	GL-3HY8, LOUDNESS
nLD9	48351800	GL-3HY8, PROCESSOR
nLD10	48351800	GL-3HY8, VOLUME/—dB
oS9	48728200	Push SW., TURNOVER•TONE
oS10	48640800	Push SW., SUBSONIC•MUTING
oS11	48640700	Push SW., SOURCE DIRECT
oS12	48640500	Push SW., LOUDNESS
oS13	48728100	Push SW., PROCESSOR

## 3-18. F-5644 Volume Board &lt;AU-X901&gt;

Parts No.	Stock No.	Description
jVR2	48592900	100kΩ + 5kΩ V.R., VOLUME

**3-19. F-5694 L-CH Power Limiter Board**

(Stock No. 01039701=AU-X701/Stock No. 01038001=AU-X901)

Parts No.	Stock No.	Description
•Transistor		
IQ30	46367101	2SC2603
	or 46367301	2SC2458 (AU-X701)
IQ31	46367001	2SA1115
	or 46367201	2SA1048 (AU-X701)
IQ32	46367001	2SA1115
	or 46367201	2SA1048 (AU-X701)
IQ33	46367101	2SC2603
	or 46367301	2SC2458 (AU-X701)
IQ34	46367101	2SC2603
IQ35	46367001	2SA1115
•Diode		
ID30	03117600	1S2473T77
	or 46086000	1S1588TP-3
△IR30	46230100	820Ω 1/2W N.I.R. (AU-X701)
△IR31	46230000	680Ω 1/2W N.I.R. (AU-X901)
△IR32	46230100	820Ω 1/2W N.I.R. (AU-X701)
△IR33	46230000	680Ω 1/2W N.I.R. (AU-X901)
△IR30	46229100	120Ω 1/2W N.I.R.
△IR33	46229100	120Ω 1/2W N.I.R.
IC30	46281800	1000pF 50V F.C.
IC31	46281800	1000pF 50V F.C.
IC32	46283300	0.022μF 50V F.C.

**3-20. F-5695 R-CH Power Limiter Board**

(Stock No. 01039801=AU-X701/Stock No. 01038101=AU-X901)

Parts No.	Stock No.	Description
•Transistor		
IQ30	46367101	2SC2603
	or 46367301	2SC2458 (AU-X701)
IQ31	46367001	2SA1115
	or 46367201	2SA1048 (AU-X701)
IQ32	46367001	2SA1115
	or 46367201	2SA1048 (AU-X701)
IQ33	46367101	2SC2603
	or 46367301	2SC2458 (AU-X701)
IQ34	46367101	2SC2603
IQ35	46367001	2SA1115
•Diode		
ID30	03117600	1S2473T77
	or 46086000	1S1588TP-3
△IR30	46230100	820Ω 1/2W N.I.R. (AU-X701)
△IR31	46230000	680Ω 1/2W N.I.R. (AU-X901)
△IR32	46230100	820Ω 1/2W N.I.R. (AU-X701)
△IR33	46230000	680Ω 1/2W N.I.R. (AU-X901)
△IR30	46229100	120Ω 1/2W N.I.R.
△IR33	46229100	120Ω 1/2W N.I.R.
IC30	46281800	1000pF 50V F.C.
IC31	46281800	1000pF 50V F.C.
IC32	46283300	0.022μF 50V F.C.

**3-21. F-5635 Tone Control Amp Board <AU-X701> (Stock No. 01038601)**

Parts No.	Stock No.	Description
•Transistor		
jQ1	46581701	2SC1845
	or 46947401	2SC2459
jQ2	46581701	2SC1845
	or 46947401	2SC2459
jQ3	46581601	2SA992
jQ4	46581601	2SA992
jQ5	46581701	2SC1845
jQ6	46581701	2SC1845
jQ101	46581701	2SC1845
	or 46947401	2SC2459
jQ102	46581701	2SC1845
	or 46947401	2SC2459
jQ103	46581601	2SA992
jQ104	46581601	2SA992
jQ105	46581701	2SC1845
jQ106	46581701	2SC1845
•FET		
jFT1	46723601	2SK389-BL
	or 46723602	2SK389-V
	or 48785701	2SK389-BK
jFT101	46723601	2SK389-VK
	or 46723602	2SK389-BL
	or 48785701	2SK389-V
	or 48785702	2SK389-BK
	or 48785702	2SK389-VK
•Diode		
jD1	03117600	1S2473T77
	or 46086000	1S1588TP-3
jD2	03401500	Varistor MV12
•Diode		
jD101	03117600	1S2473T77
	or 46086000	1S1588TP-3
jD102	03401500	Varistor MV12
jR8	48027700	1kΩ 1/4W C.R.
jR9	48027700	1kΩ 1/4W C.R.
△jR14	46229100	120Ω 1/2W N.I.R.
jR18	48029500	5.6kΩ 1/4W C.R.
jR19	48028600	2.4kΩ 1/4W C.R.
△jR22	46229400	220Ω 1/2W N.I.R.
△jR23	46229400	220Ω 1/2W N.I.R.
jR25	48026000	200Ω 1/4W C.R.

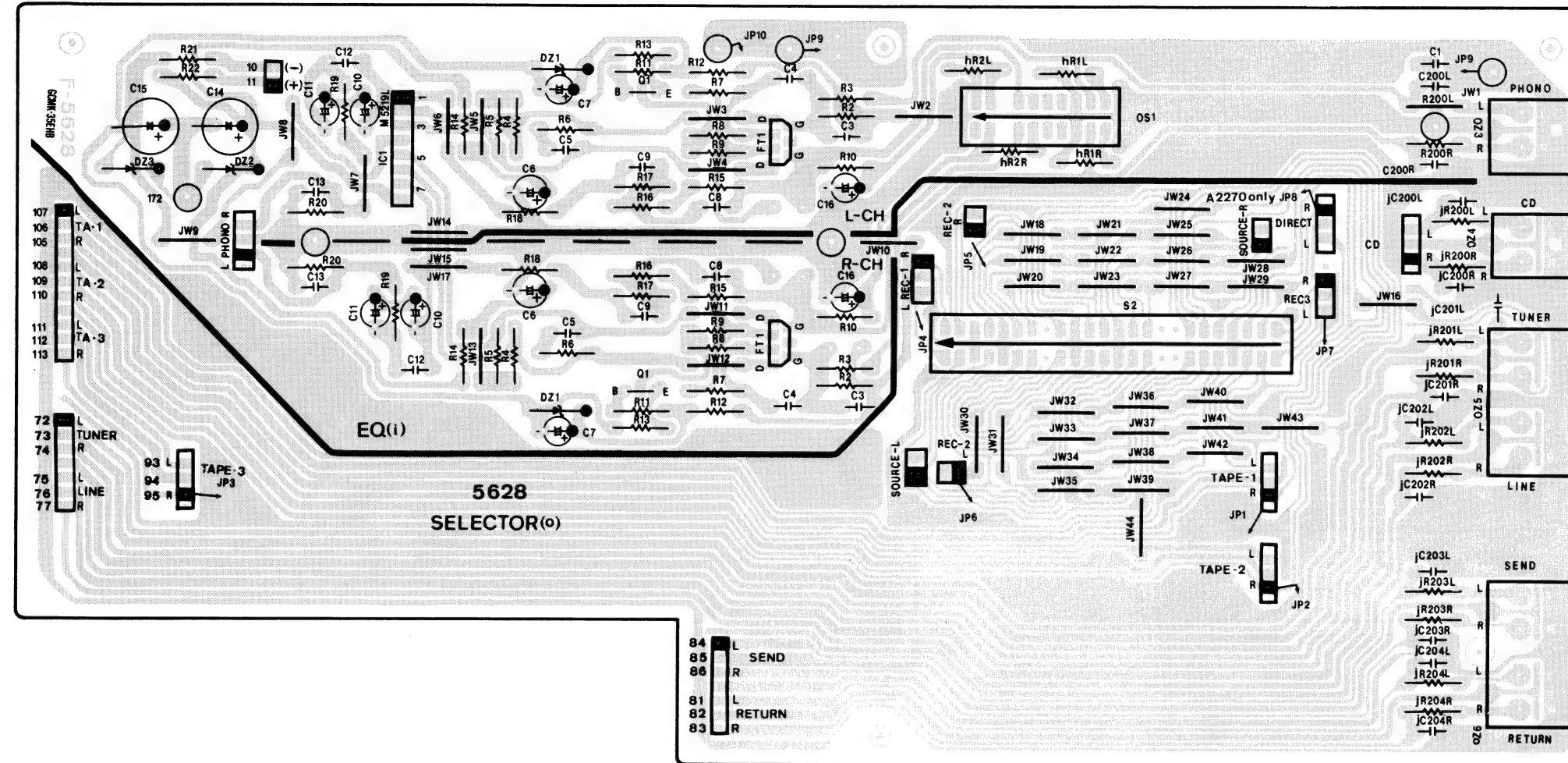
Parts No.	Stock No.	Description
jR107	48029700	6.8kΩ 1/4W C.R.
△jR114	46229100	120Ω 1/2W N.I.R.
jR115	48029700	6.8kΩ 1/4W C.R.
jR117	48030100	10kΩ 1/4W C.R.
△jR122	46229400	220Ω 1/2W N.I.R.
△jR123	46229400	220Ω 1/2W N.I.R.
jR125	48026000	200Ω 1/4W C.R.
jR126	48025300	100Ω 1/4W C.R.
jC2	46697200	0.068μF 50V F.C.
jC3	48479700	0.27μF 63V F.C.
jC7	48674300	220μF 25V E.C.
jC10	48693400	220μF 35V E.C.
jC11	48693400	220μF 35V E.C.
jC12	46282200	2200pF 50V F.C.
jC13	46282700	6800pF 50V F.C.
jC14	46697400	0.082μF 50V F.C.
jC15	46698000	0.15μF 50V F.C.
jC19	46281800	1000pF 50V F.C.
jC21	46283700	0.047μF 50V F.C.
jC22	48674300	220μF 25V E.C.
jC105	46281800	1000pF 50V F.C.
jC119	46281800	1000pF 50V F.C.
jVR1	48669100	250KX2 V.R., BALANCE
jVR3	48669000	100KX2 V.R., TREBLE
jVR4	48669000	100KX2 V.R., BASS
•Zener Diode		
nDZ9	46109100	05Z2.7-Y
	or 46109200	05Z2.7-Z
nDZ10	46111800	05Z6.2-Y
	or 46111900	05Z6.2-Z
•LED		
nLD2	48719200	AY3427S, S-DIRECT
nLD3	48719200	AY3427S, S-DIRECT
nLD4	48719200	AY3427S, S-DIRECT
nLD5	48351800	GL-3HY8, LOUDNESS
nLD6	48351800	GL-3HY8, TONE
oS6	48640600	Push SW., MUTING•SUBSONIC
oS7	48640400	Push SW., LOUDNESS•PROCESSOR
oS9	48640700	Push SW., SOURCE DIRECT
oS11	48640500	Push SW., TONE



## 4. PARTS LOCATION ON BOARD

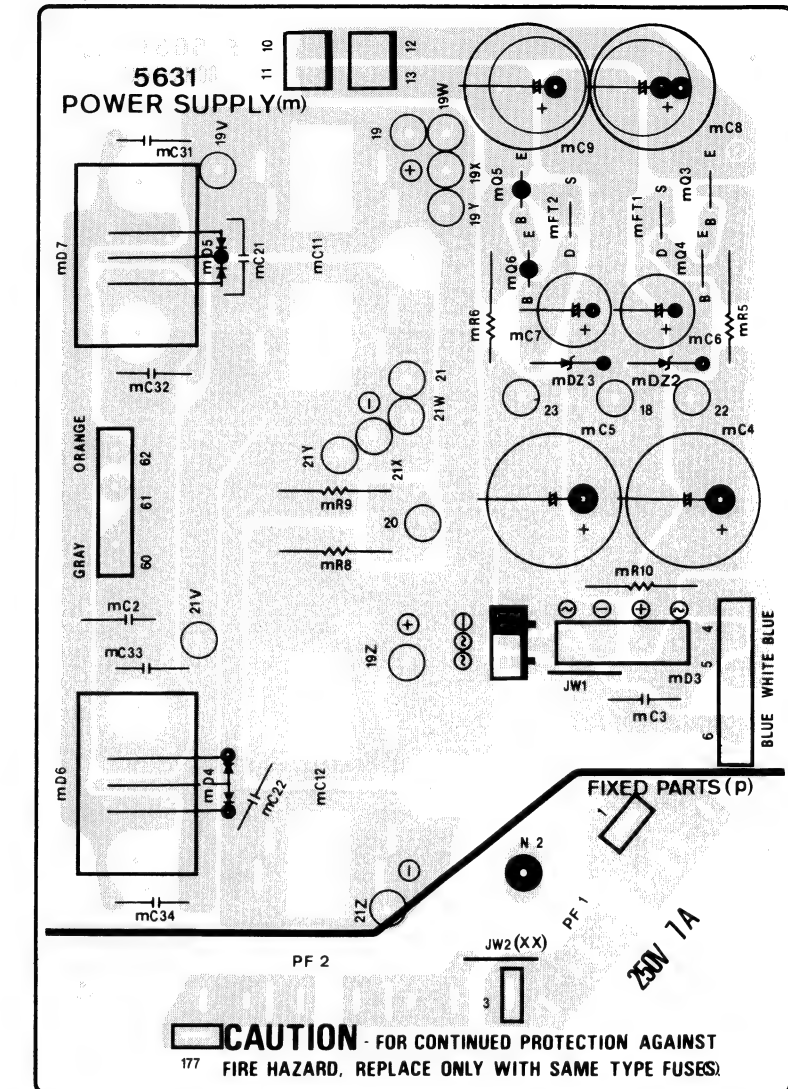
### 4-1. F-5628 EQ Amp & Input Terminal Board <AU-X701>

Pattern Side



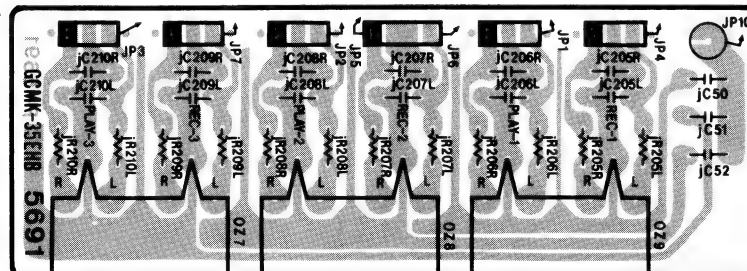
### 4-2. F-5631 Power Supply Board

Component Side



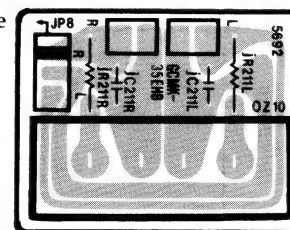
### 4-3. F-5691 Tape Terminal Board <AU-X701-EU·SEV/AU-X901-XX·UL·EU·SEV·CSA>

Component Side



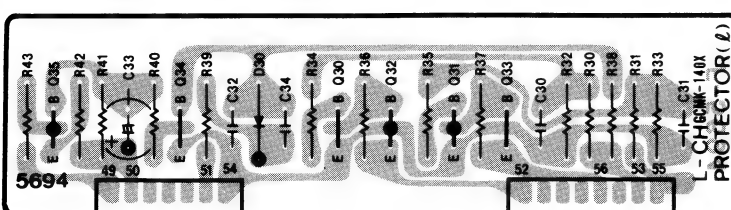
### 4-4. F-5692 Power Amp Direct Terminal Board <AU-X901>

Component Side



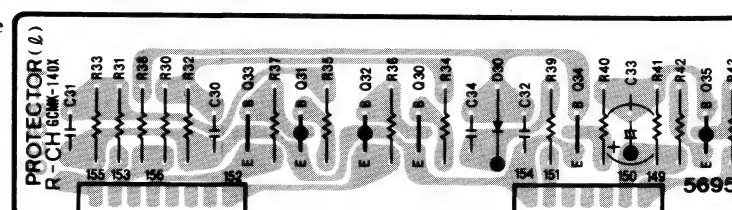
### 4-5. F-5694 L-CH Power Limiter Board

Component Side



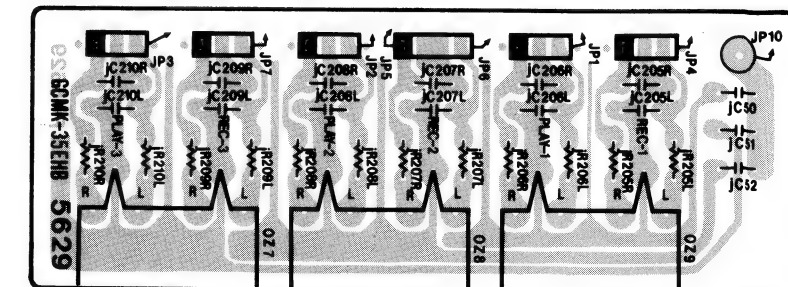
### 4-6. F-5695 R-CH Power Limiter Board

Component Side



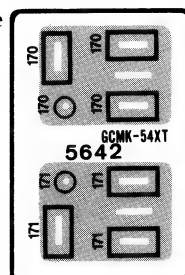
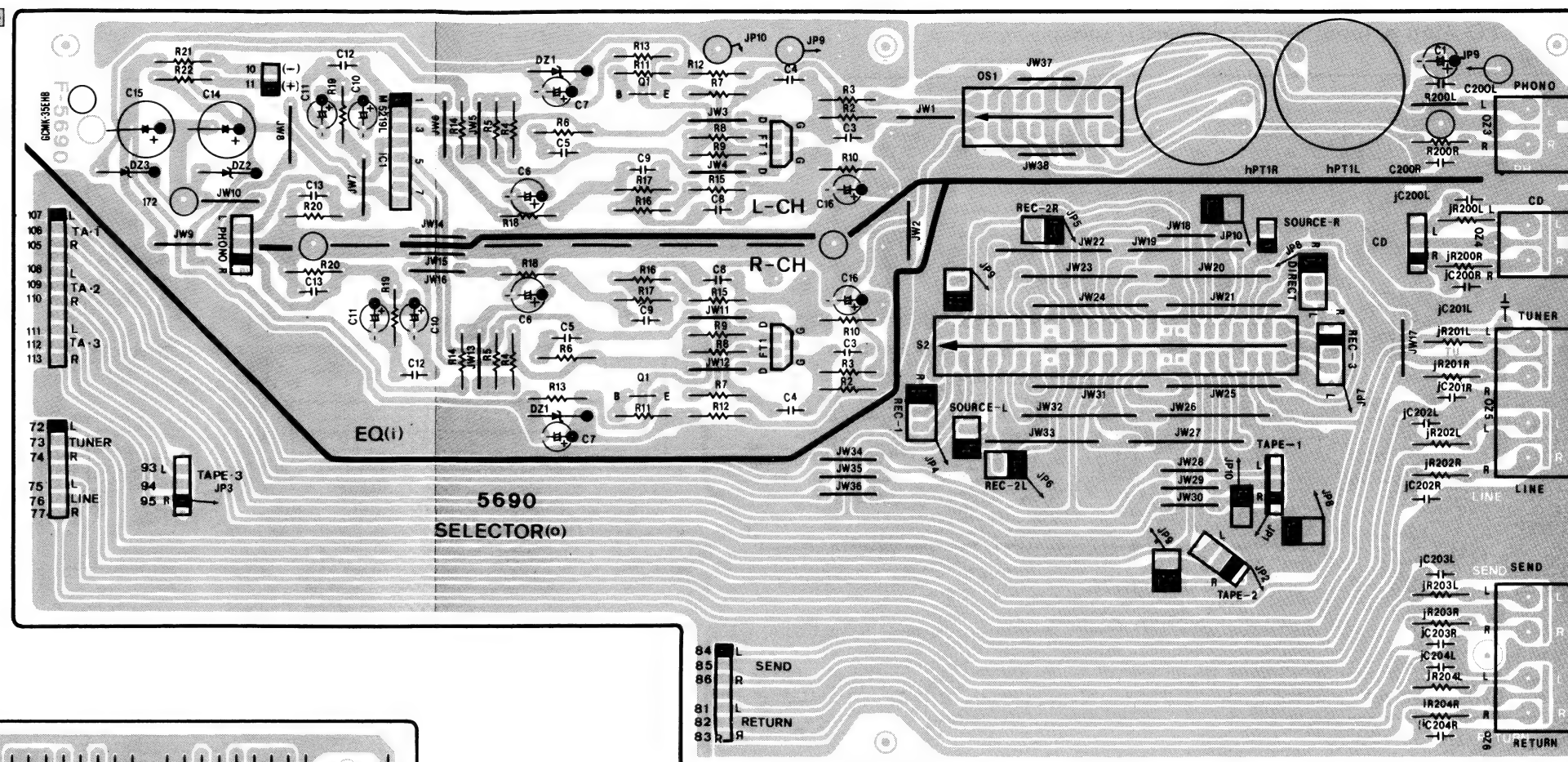
### 4-7. F-5629 Tape Terminal Board <AU-X701-XX·UL·CSA>

Component Side

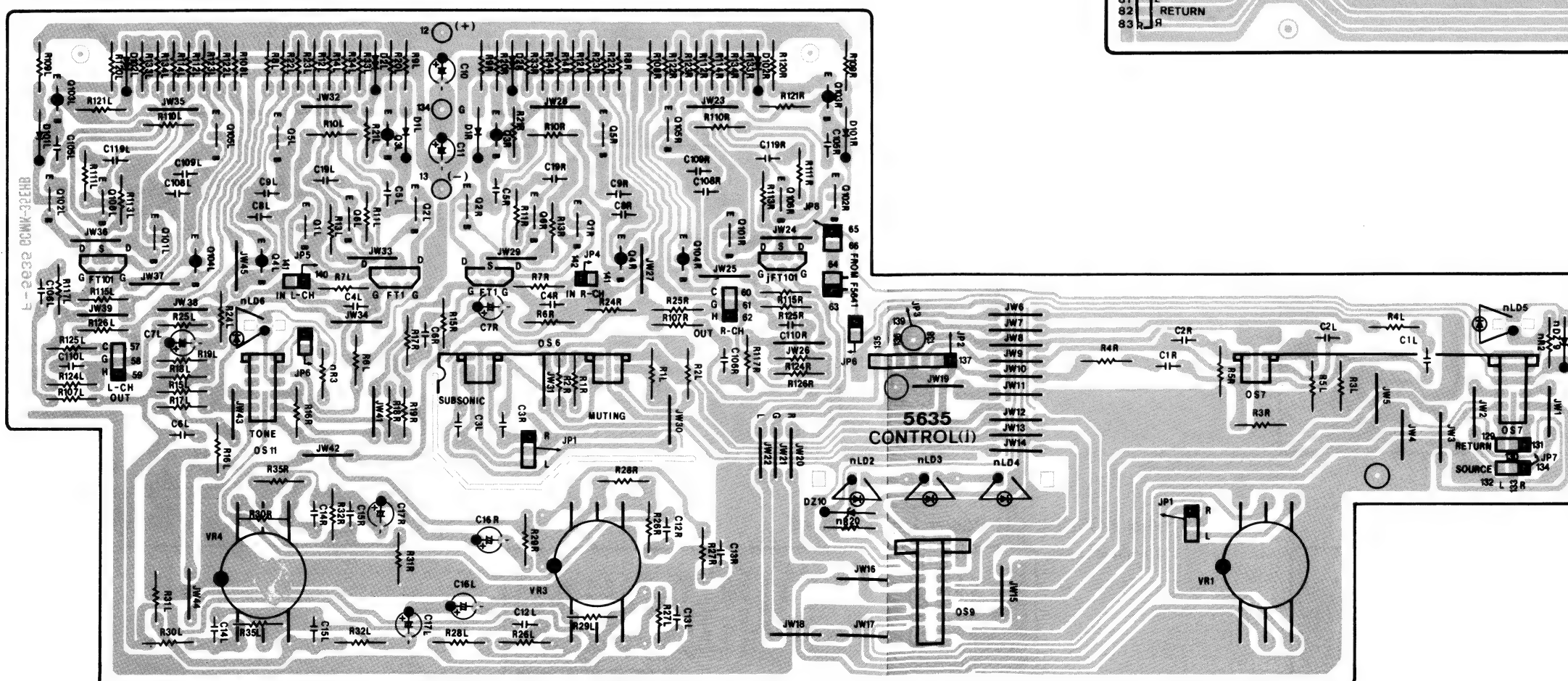




Component Side

**Pattern Side**

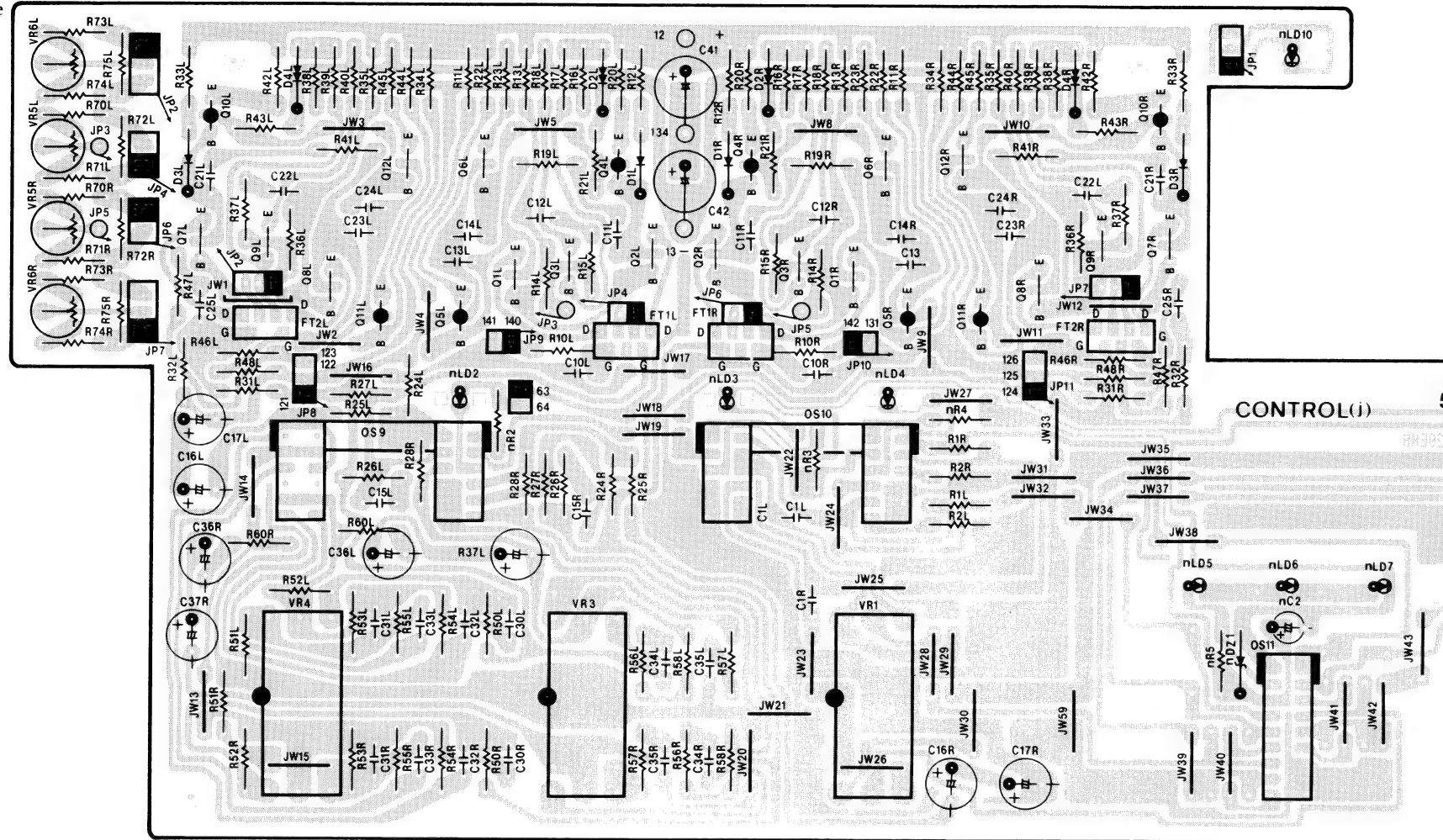
### Component Side





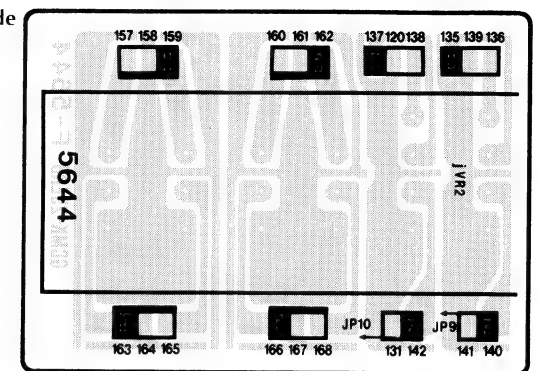
4-11. F-5643 Tone Control Amp Board &lt;AU-X901&gt;

Component Side



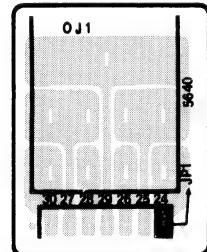
4-12. F-5644 Volume Board &lt;AU-X901&gt;

Component Side



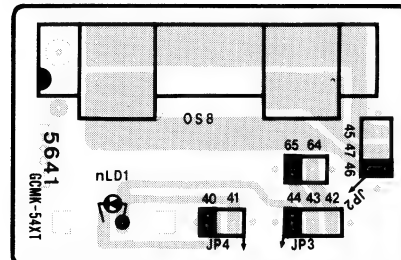
4-13. F-5640 Head Phones Board

Component Side



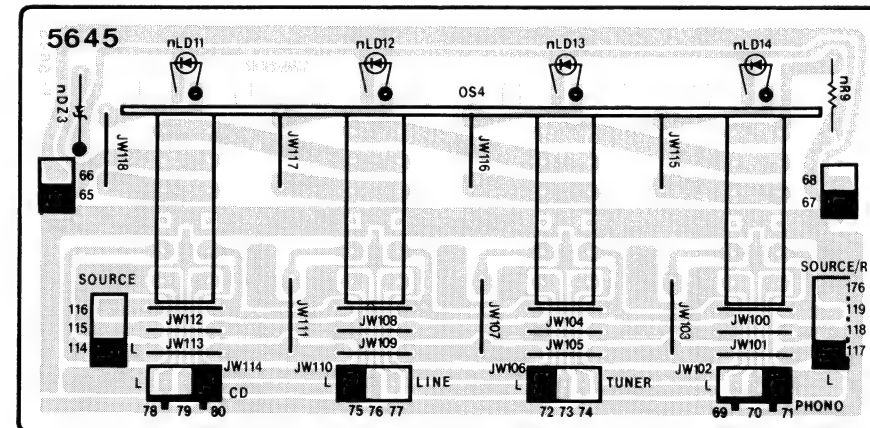
4-15. F-5641 SP SW. Board

Component Side



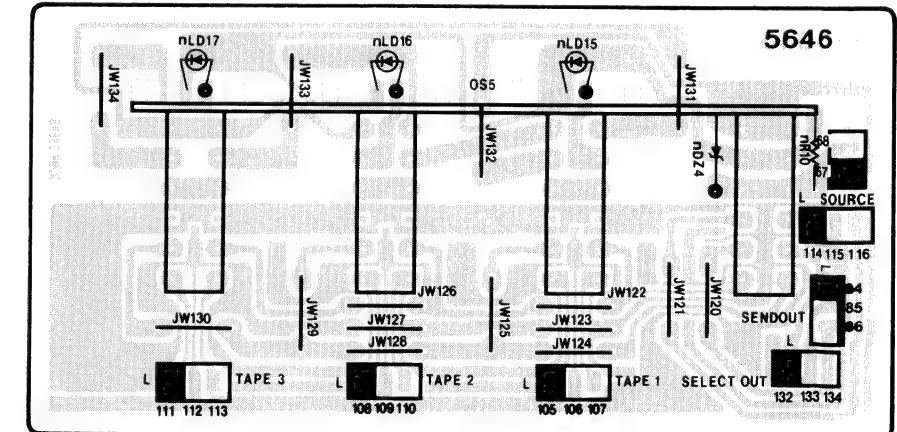
4-14. F-5645 Input Selector Board &lt;AU-X901&gt;

Component Side



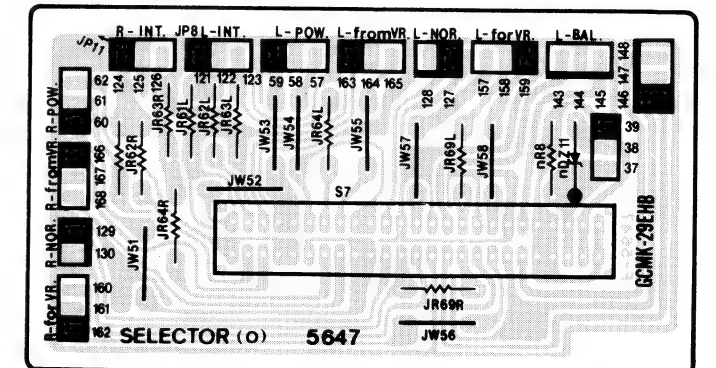
4-16. F-5646 Tape Selector Board &lt;AU-X901&gt;

Component Side



4-17. F-5647 Power Amp Direct SW. Board &lt;AU-X901&gt;

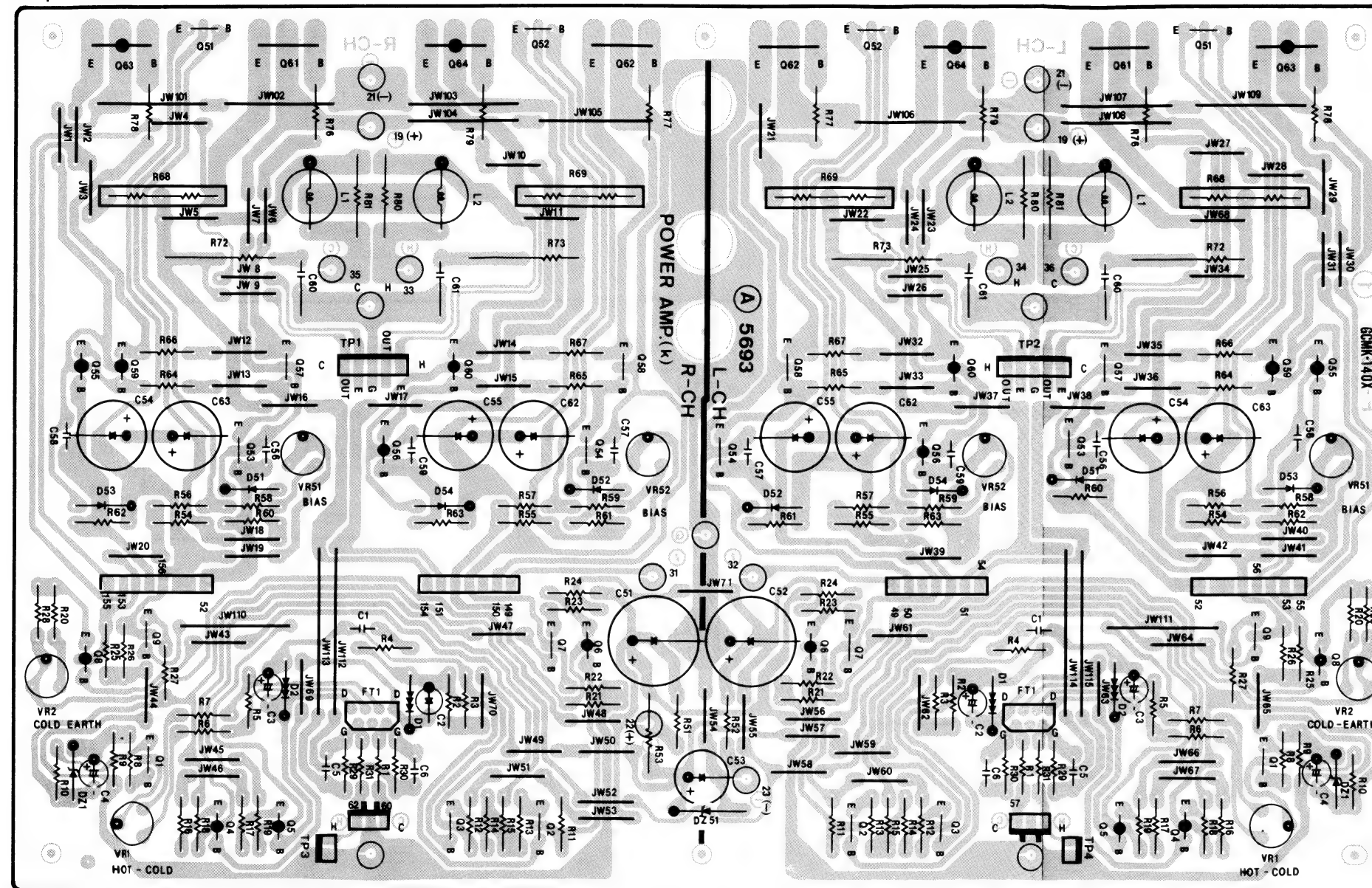
Component Side





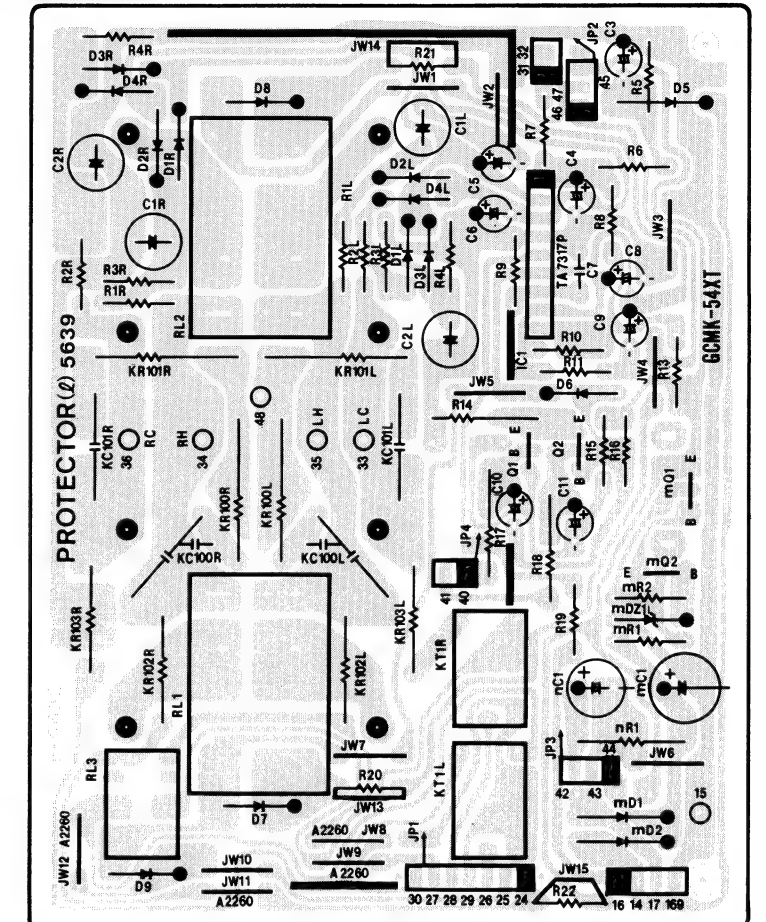
4-18. F-5693 Power Amp Board

Component Side



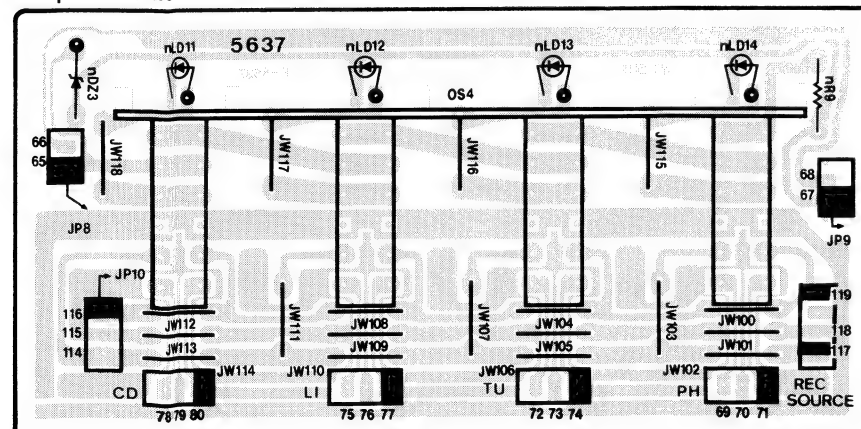
4-19. F-5639 Protector Board

Pattern Side



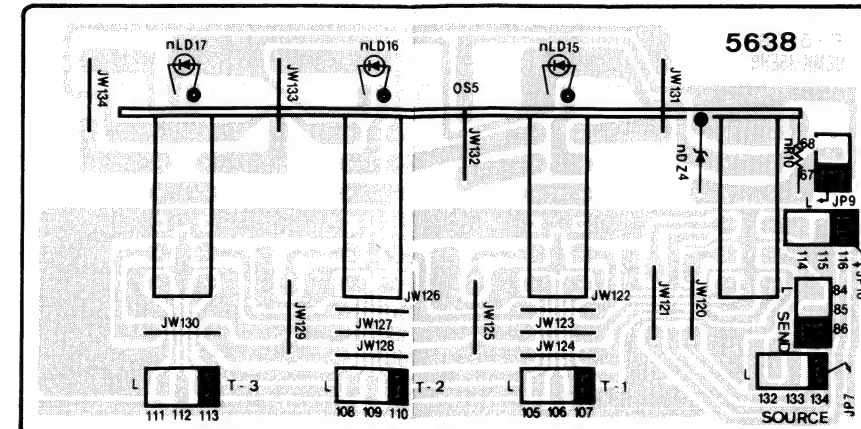
4-20. F-5637 Input Selector Board <AU-X701>

Component Side



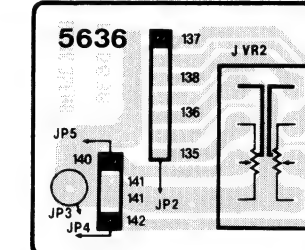
4-21. F-5638 Tape Selector Board <AU-X701>

Component Side



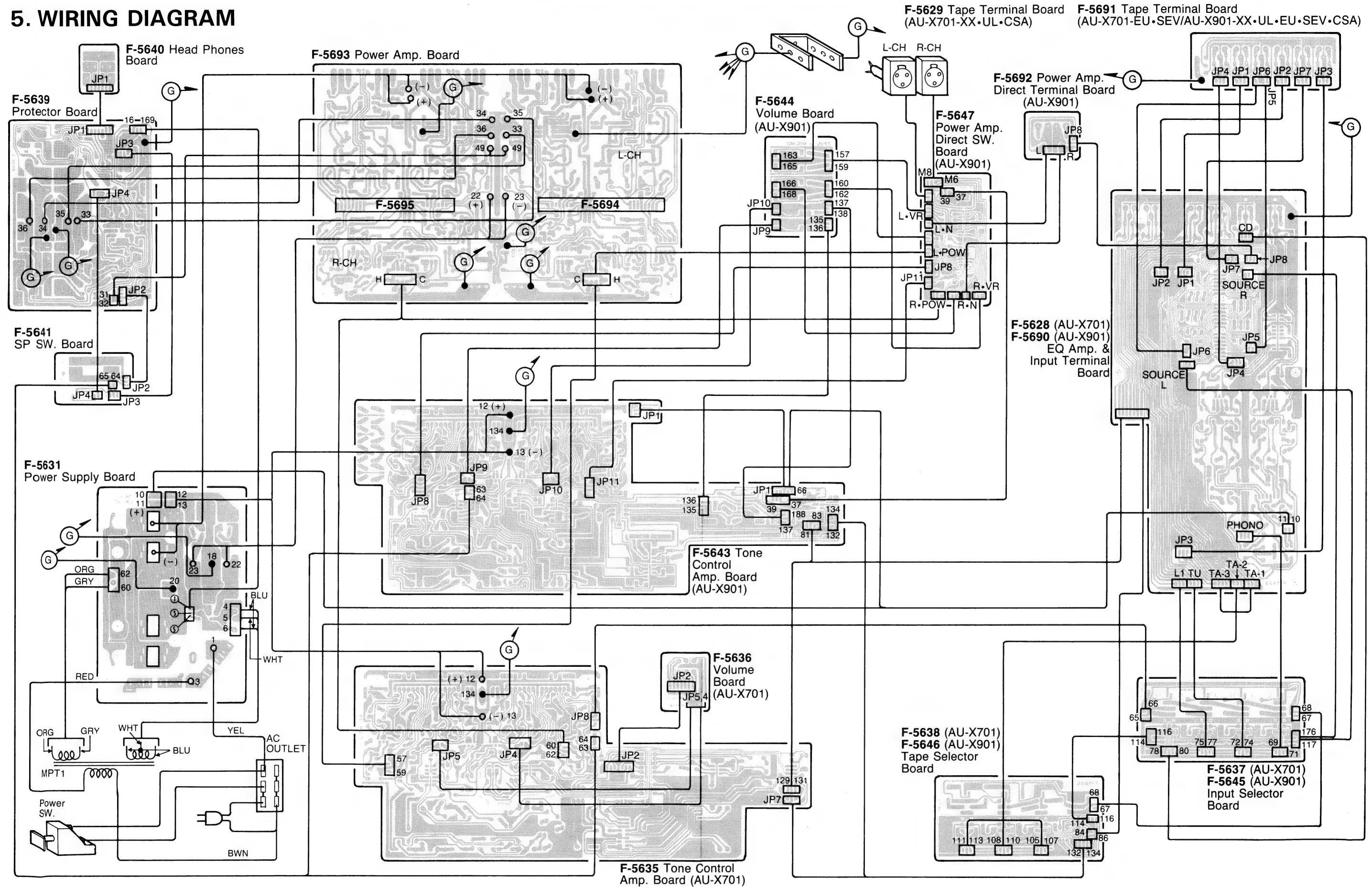
4-22. F-5636 Volume Board <AU-X701>

Component Side



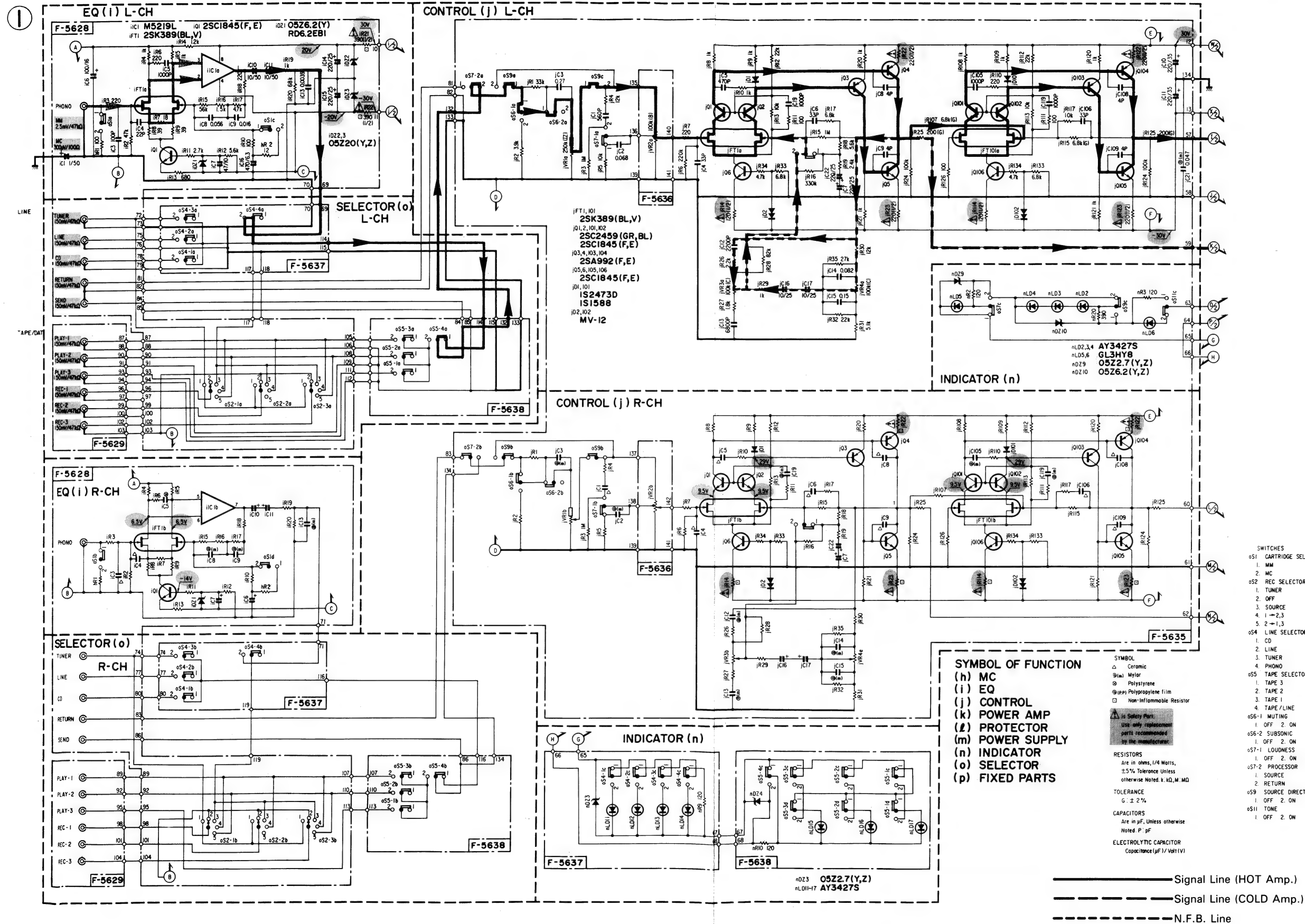


## 5. WIRING DIAGRAM



## 6. SCHEMATIC DIAGRAM

- \* Design and specifications subject to change without notice for improvement.
- \* La présentation et les spécifications sont susceptibles d'être modifiées sans préavis par suites d'améliorations éventuelles.
- \* Änderungen, die dem technischen Fortschritt dienen, bleiben vorbehalten.



- 25A992  
25A1049  
25A1145  
25C1815  
25C1845  
25C2705
- 25D357
- 25A1115  
25C2459  
25C2603
- 25A1438  
25C3851
- 25K163
- 25A1386  
25C3519
- 25K389
- 25A1306  
25C3298
- TA7317P
- M5219L
- FMG-22S
- UB-152LFF
- FMG-22R
- 151588  
152091  
152473D  
10E2  
11E2
- MV12  
MV103
- 0522.7  
0526.2  
0527.5  
05220  
05224  
05233  
RD6.2E  
RD22F

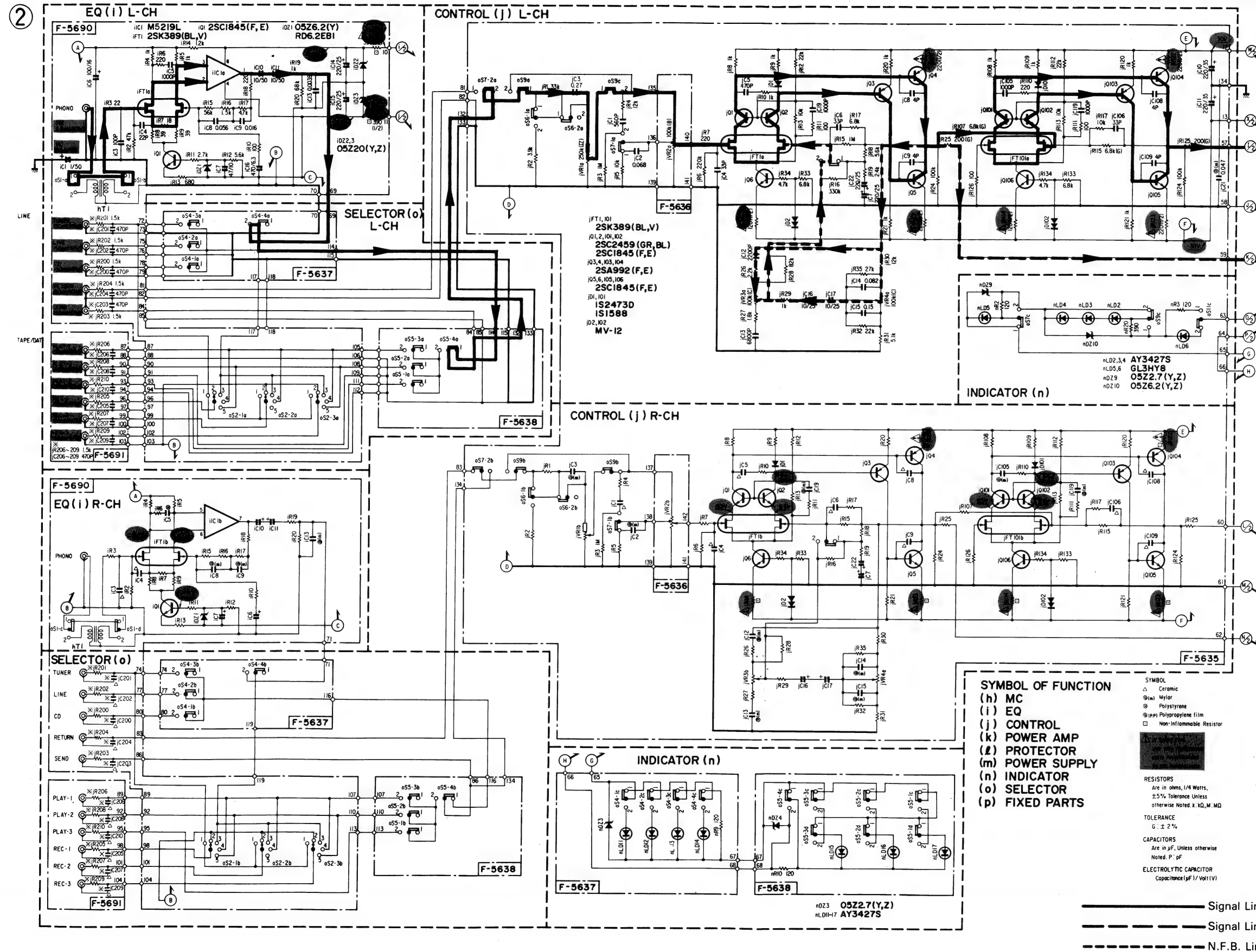
—Signal Line (HOT Amp.)

—Signal Line (COLD Amp.)

-----N.F.B. Line

## 6-2. EQ Amp &amp; Control Amp Section (EU, SEV) &lt;AU-X701&gt;

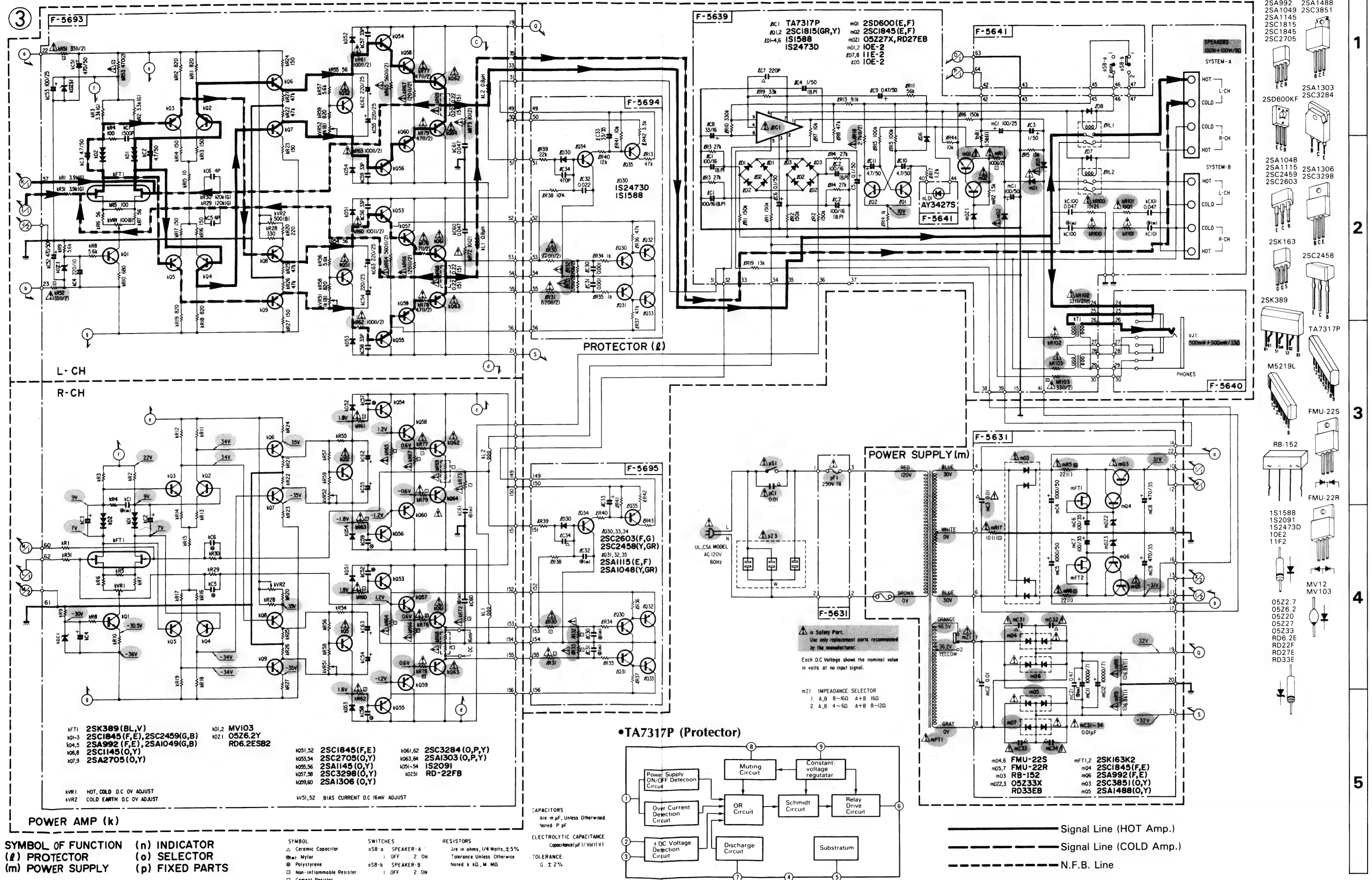
Design and specifications subject to change without notice for improvement.  
 La présentation et les spécifications sont susceptibles d'être modifiées sans préavis par suites d'améliorations éventuelles.  
 Änderungen, die dem technischen Fortschritt dienen, bleiben vorbehalten.





## 6-3. Power Amp &amp; Power Section &lt;AU-X701&gt;

\* Design and specifications subject to change without notice for improvement.  
 \* La présentation et les spécifications sont susceptibles d'être modifiées sans préavis par suites d'améliorations éventuelles.  
 \* Änderungen, die dem technischen Fortschritt dienen, bleiben vorbehalten.





\* Design and specifications subject to change without notice for improvement.  
 \* La présentation et les spécifications sont susceptibles d'être modifiées sans préavis par suites d'améliorations éventuelles.  
 \* Änderungen, die dem technischen Fortschritt dienen, bleiben vorbehalten.



- \* Design and specifications subject to change without notice for improvement.
- \* La présentation et les spécifications sont susceptibles d'être modifiées sans préavis par suites d'améliorations éventuelles.
- \* Änderungen, die dem technischen Fortschritt dienen, bleiben vorbehalten.



A

B

C

D

E

F

G

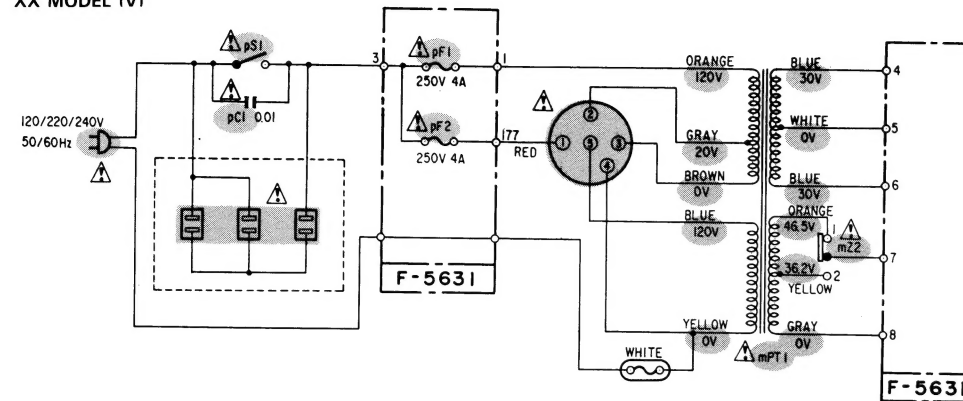
H

## 6-6. Power Supply (Primary Side) Section &lt;AU-X701&gt;

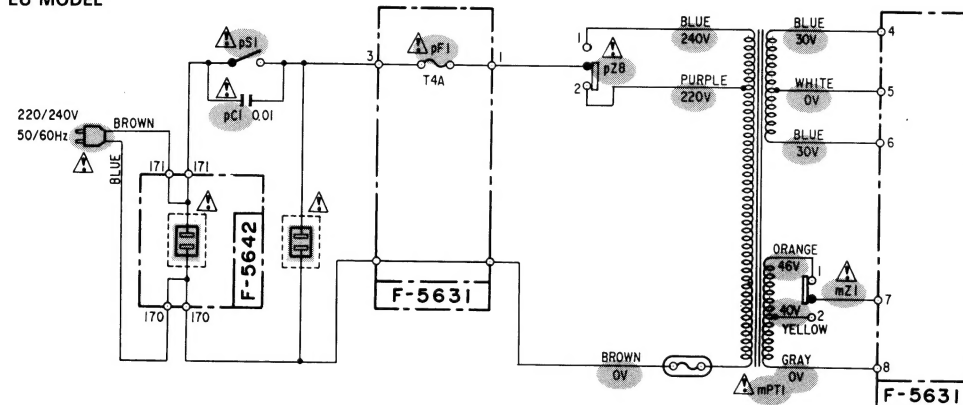
•AU-X701

④

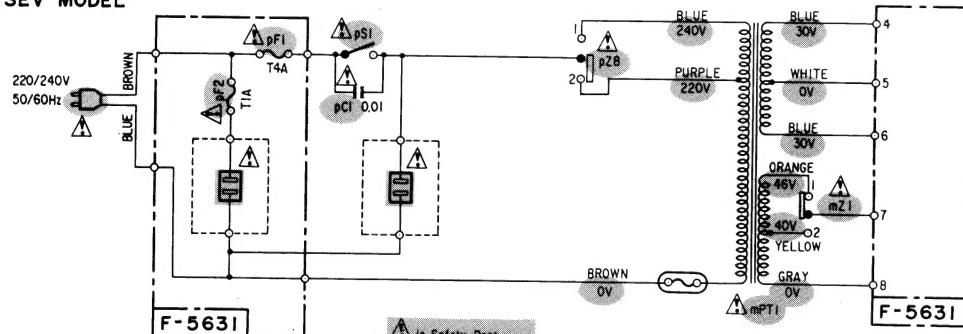
XX MODEL (V)



EU MODEL



SEV MODEL



p28 VOLTAGE SELECTOR  
1. 240V 2. 220V

m21 SPEAKER IMPEDANCE SELECTOR  
1. A+B 8~12Ω, A,B 4~16Ω  
2. A+B 16Ω, A,B 8~16Ω

⚠ is Safety Part.  
Use only replacement  
parts recommended  
by the manufacturer.

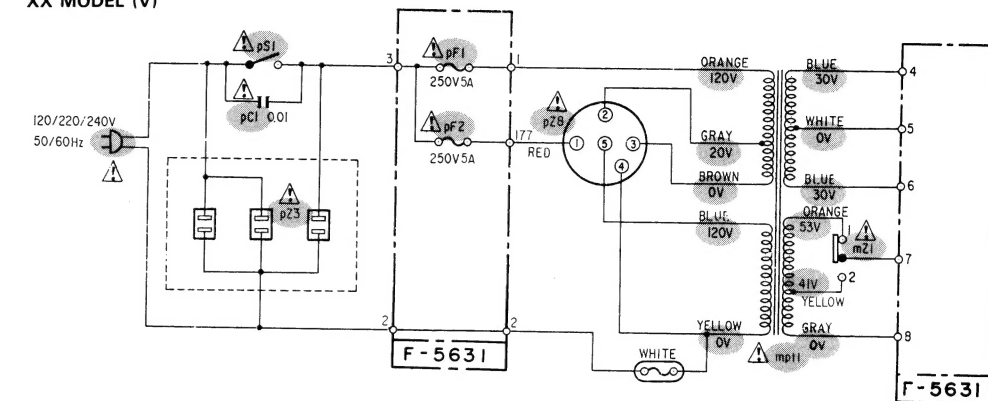
\* Design and specifications subject to change without notice for improvement.  
\* La présentation et les spécifications sont susceptibles d'être modifiées sans préavis par suites d'améliorations éventuelles.  
\* Änderungen, die dem technischen Fortschritt dienen, bleiben vorbehalten.

## 6-7. Power Supply (Primary Side) Section &lt;AU-X901&gt;

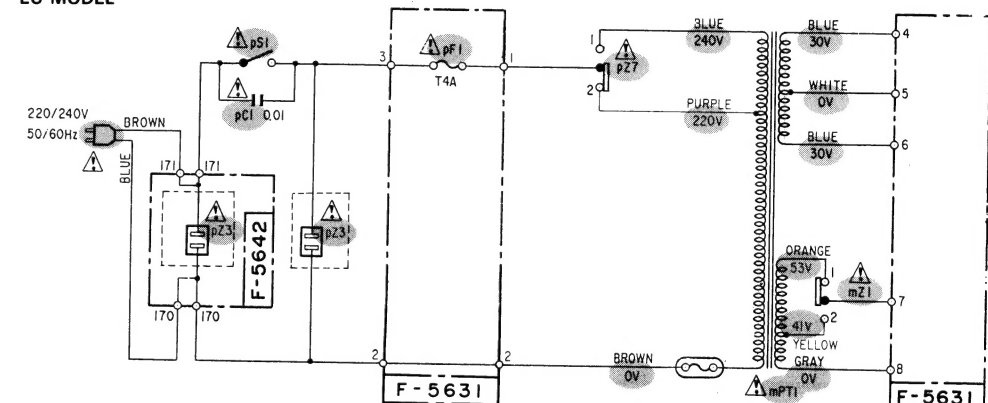
•AU-X901

③

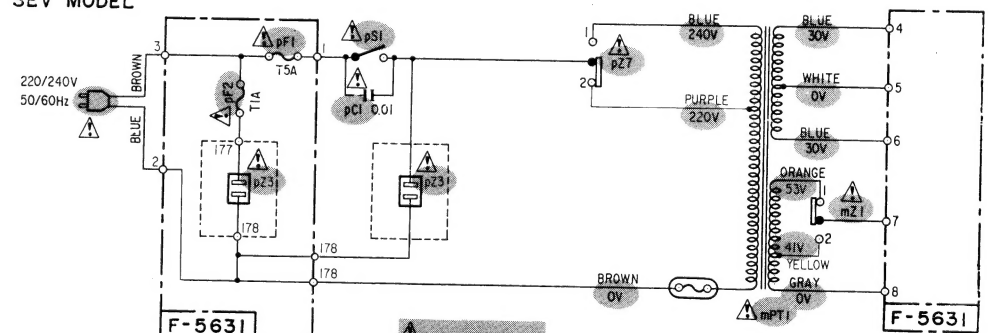
XX MODEL (V)



EU MODEL



SEV MODEL



p27 VOLTAGE SELECTOR  
1. 240V 2. 220V

m21 SPEAKER IMPEDANCE SELECTOR  
1. A or B 8~16Ω A and B 16Ω  
2. A or B 4~6Ω A and B 8~12Ω

⚠ is Safety Part.  
Use only replacement  
parts recommended  
by the manufacturer.

2SA992 2SD357  
2SA1049  
2SA1145  
2SC1815  
2SC1845  
2SC2705

2SA1115 2SA1438  
2SC2459 2SC3851  
2SC2603

2SK163 2SA1386  
2SC3519

2SK389 2SA1306  
2SC3298

TA7317P

M5219L

FMG-22S

UB-152LFF

FMG-22R

1S1588  
1S2091  
1S2473D  
1OE2  
11E2

MV12  
MV103

O5Z2.7  
O5Z6.2  
O5Z7.5  
O5Z20  
O5Z24  
O5Z33  
RD6.2E  
RD22F

1

2

3

4

5



## 7. ADJUSTMENT

Condition: 1. Master Volume ..... Minimum  
2. Room Temperature ..... 18°C ~ 28°C (65°F ~ 83°F)

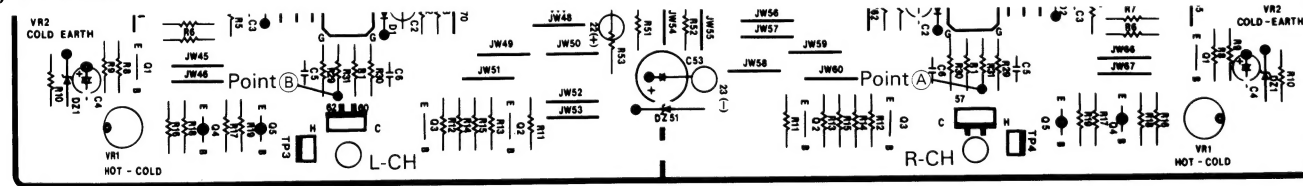
### 7-1. F-5693 Power Amp. Adjustment

STEP	SUBJECT	MEASURE OUTPUT	ADJUST	ADJUST FOR	REMARKS
1.	Center DC 0V Adj. <L-ch>	DC Voltage between Speaker Terminals COLD and GND <L-ch>	kVR2L	DC 0V ± 3 mV	•Set Speaker-A switch to "ON". •Set the POWER AMP DIRECT <AU-X901> switch to normal position.
2.	Center DC 0V Adj. <R-ch>	DC Voltage between Speaker Terminals COLD and GND <R-ch>	kVR2R	DC 0V ± 3 mV	
3.	Hot/Cold Balance Adj. <L-ch>	DC Voltage between Speaker Terminal HOT and GND. <L-ch>	kVR1L	DC 0V ± 3 mV	
4.	Hot/Cold Balance Adj. <R-ch>	DC Voltage between Speaker Terminal HOT and GND. <R-ch>	kVR1R	DC 0V ± 3 mV	

### 7-2. F-5643 Tone Control Amp. Adjustment <AU-X901>

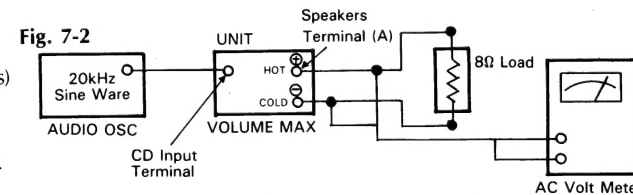
STEP	SUBJECT	MEASURE OUTPUT	ADJUST	ADJUST FOR	REMARKS
1.	Center DC 0V Adj. <L-ch>	DC Voltage between F-5693 Point Ⓐ (kR31) and Chassis (See Fig. 7-1)	jVR5L	DC 0V ± 3 mV	•For this adjustment, remove the front panel. •Set the POWER AMP DIRECT switch to integrated position. •Set Speaker-A switch to "ON".
2.	Center DC 0V Adj. <R-ch>	DC Voltage between F-5693 Point Ⓑ (kR31) and Chassis (See Fig. 7-1)	jVR5R	DC 0V ± 3 mV	
3.	Hot/Cold Balance Adj. <L-ch>	DC Voltage between Speaker Terminals HOT and GND. <L-ch>	jVR6L	DC 0V ± 3 mV	
4.	Hot/Cold Balance Adj. <R-ch>	DC Voltage between Speaker Terminals HOT and GND. <R-ch>	jVR6R	DC 0V ± 3 mV	

Fig. 7-1 F-5693



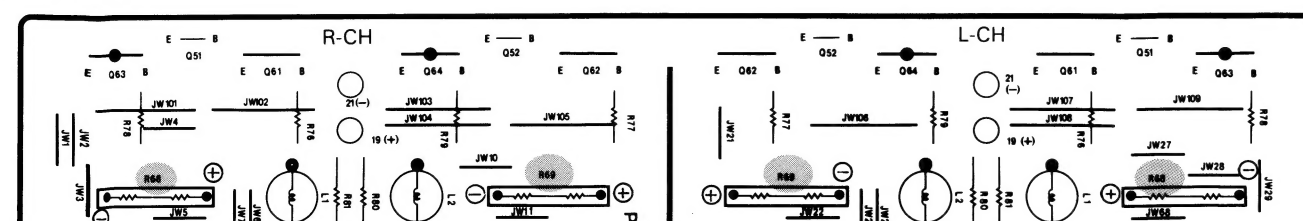
### 7-3. F-5693 Power Amp. Adjustment

- Note: Perform this adjustment after the preheating (more than five minutes)  
 •Preheating  
 1. Arrange the connection as shown in Fig. 7-2.  
 2. Set the output level of Audio OSC for obtaining 16.8V (35W) <AU-X701> or 20.6V (53W) <AU-X901> on the AC Volt Meter.  
 3. Set the Volume to minimum position after the preheating.



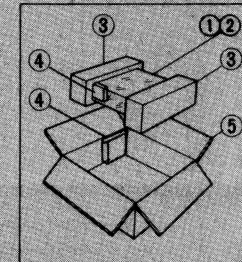
STEP	SUBJECT	MEASURE OUTPUT	ADJUST	ADJUST FOR	REMARKS
1.	Bias Current Adj. <Hot Side Amp. of L-ch>	DC Voltage between both edges of kR69 <L-ch> (See Fig. 7-3)	kVR52L	DC 17mV ± 2 mV	•Set the POWER AMP DIRECT <AU-X901> switch to normal position. •After this adjustment position (Bias Current), repeat procedures as stated in 7-1 & 7-2.
2.	Bias Current Adj. <Cold Side Amp. of L-ch>	DC Voltage between both edges of kR68 <L-ch> (See Fig. 7-3)	kVR51L	DC 17mV ± 2 mV	
3.	Bias Current Adj. <Hot Side Amp. of R-ch>	DC Voltage between both edges of kR69 <R-ch> (See Fig. 7-3)	kVR52R	DC 17mV ± 2 mV	
4.	Bias Current Adj. <Cold Side Amp. of R-ch>	DC Voltage between both edges of kR68 <R-ch> (See Fig. 7-3)	kVR51R	DC 17mV ± 2 mV	

Fig. 7-3 F-5693



## 8. PACKING LIST

Parts No.	Stock No.	Description
1	47858400	Vinyl Bag
2	27417500	Protector Sheet
3	27303700	Styrofoam Packing
4	27354610	Sub Packing
5	27374700	Carton Case (AU-X701)
	27374800	Carton Case (AU-X901)



## 9. ACCESSORY LIST

Stock No.	Description
27354500	Polyshing Cloth
49023900	Operating Instruction (*E•F•S) (AU-X701)
49024000	Operating Instruction (*G•I•Sw) (AU-X701)
49023700	Operating Instruction (*E•F•S) (AU-X901)
49023800	Operating Instruction (*G•I•Sw) (AU-X901)

\*Note:  
 E•F•S: English•French and Spanish Version  
 G•I•Sw: German•Italian and Swedish Version

**Sansui**

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